



TL-395

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TEST REPORT CEI 0-16	
Reference technical rules for the connection of active and passive consumers to the HV and MV electrical networks of distribution Company	
Report Reference No.....	221202105GZU-001
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Testing Laboratory	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Address	Room 02, & 101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2. Caipin Road, Science City, GETDD, Guangzhou, Guangdong, China
Tested by (name + signature)	Gaison Li Engineer <i>Gaison Li</i>
Approved by (+ signature)	Jason Fu Supervisor <i>Jason Fu</i>
Applicant's name	INVT Solar Technology (Shenzhen) Co., Ltd.
Address	6th Floor, Block A, INVT Guangming Technology Building, Kejie Fourth Road, Shutianpu Community, Matian Guangming District, 518000 Shenzhen, PEOPLE'S REPUBLIC OF CHINA
Test specification:	
Standard	CEI 0-16: 2022-03
Test procedure	Type approval for Type B
Non-standard test method	N/A
Test Report Form No	CEI 0-16a
Test Report Form(s) Originator	Intertek Guangzhou
Master TRF	Dated 2019-06
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Test item description	Grid-tied Solar inverter
Trade Mark	inv
Manufacturer	Same as applicant
Model/Type reference	iMars XG100KTR, iMars XG100KTR-F, iMars XG110KTR, iMars XG110KTR-F, iMars XG136KTR-L, iMars XG136KTR-LF, iMars XG136KTR-X, iMars XG136KTR-XF

Ratings	Model	iMars XG100KTR	iMars XG100KTR-F
	Max.PV voltage	1100Vdc	
	MPPT voltage range	180V – 1000Vdc	
	Max.input current	26A*9	30A*9
	PV Isc	40A*9	
	Nominal output voltage	3/N/PE, 230/400Vac	
	Nominal output Frequency	50Hz	
	Max.output current	158.8A	
	Rated output power	100KW	
	Max.apparent power	110KVA	
	Power factor range	0.8Leading – 0.8 lagging	
	Safety level	Class I	
	Ingress Protection	IP 66	
	Operation Ambient Temperature	-30℃ - +60℃	
	Software version	V1.1	
	Model	iMars XG110KTR	iMars XG110KTR-F
	Max.PV voltage	1100Vdc	
	MPPT voltage range	180V – 1000Vdc	
	Max.input current	26A*10	30A*10
	PV Isc	40A*10	
	Nominal output voltage	3/N/PE, 230/400Vac	
	Nominal output Frequency	50Hz	
	Max.output current	174.6A	
	Rated output power	110KW	
	Max.apparent power	121KVA	
	Power factor range	0.8Leading – 0.8 lagging	
	Safety level	Class I	
	Ingress Protection	IP 66	
	Operation Ambient Temperature	-30℃ - +60℃	
	Software version	V1.1	

	Model	iMars XG136KTR-L	iMars XG136KTR-LF
	Max.PV voltage	1100Vdc	
	MPPT voltage range	180V – 1000Vdc	
	Max.input current	26A*12	30A*12
	PV Isc	40A*12	
	Nominal output voltage	3/N/PE, 277/480Vac	
	Nominal output Frequency	50Hz	
	Max.output current	174.6A	
	Rated output power	136KW	
	Max.apparent power	150KVA	
	Power factor range	0.8Leading – 0.8 lagging	
	Safety level	Class I	
	Ingress Protection	IP 66	
	Operation Ambient Temperature	-30℃ - +60℃	
	Software version	V1.1	
	Model	iMars XG136KTR-X	iMars XG136KTR-XF
	Max.PV voltage	1100Vdc	
	MPPT voltage range	180V – 1000Vdc	
	Max.input current	26A*12	30A*12
	PV Isc	40A*12	
	Nominal output voltage	3/N/PE, 311/540Vac	
	Nominal output Frequency	50Hz	
	Max.output current	160.4A	
	Rated output power	136KW	
	Max.apparent power	150KVA	
	Power factor range	0.8Leading – 0.8 lagging	
	Safety level	Class I	
	Ingress Protection	IP 66	
	Operation Ambient Temperature	-30℃ - +60℃	
	Software version	V1.1	

Summary of testing:

Tests performed (name of test and test clause):

See following page 9 -13 for details

Testing location:

Intertek Testing Services Shenzhen Ltd.
Guangzhou Branch

Room 02, &
101/E201/E301/E401/E501/E601/E701/E801 of
Room 01 1-8/F., No. 7-2. Caipin Road, Science
City, CETDD, Guangzhou, Guangdong, China

Marking plate

invt	Grid-tied Solar Inverter
iMars XG100KTR	
DC Input	
Vmax. PV	1100V
MPPT Range	180V-1000V
Max. Current	26AX9
Isc PV	40AX9
AC Output	
Nominal Voltage	3/N/PE230/400V
Max. Current	158.8A
Rated Power	100000W
Max. Output Power	110000VA
Frequency	50Hz/60Hz
Power factor range	0.80un - 0.80ov
Environment	
Temperature	-30°C - +60°C
Protective Class	I
Inverter topology	Non-isolated
Ingress protection	IP66
	
Made in China	
INVT Solar Technology (Shenzhen) Co., Ltd.	

invt	Grid-tied Solar Inverter
iMars XG100KTR-F	
DC Input	
Vmax. PV	1100V
MPPT Range	180V-1000V
Max. Current	30AX9
Isc PV	40AX9
AC Output	
Nominal Voltage	3/N/PE230/400V
Max. Current	158.8A
Rated Power	100000W
Max. Output Power	110000VA
Frequency	50Hz/60Hz
Power factor range	0.80un - 0.80ov
Environment	
Temperature	-30°C - +60°C
Protective Class	I
Inverter topology	Non-isolated
Ingress protection	IP66
	
Made in China	
INVT Solar Technology (Shenzhen) Co., Ltd.	

invt	Grid-tied Solar Inverter
iMars XG110KTR	
DC Input	
Vmax. PV	1100V
MPPT Range	180V-1000V
Max. Current	26AX10
Isc PV	40AX10
AC Output	
Nominal Voltage	3/N/PE230/400V
Max. Current	174.6A
Rated Power	110000W
Max. Output Power	121000VA
Frequency	50Hz/60Hz
Power factor range	0.80un - 0.80ov
Environment	
Temperature	-30°C - +60°C
Protective Class	I
Inverter topology	Non-isolated
Ingress protection	IP66
	
Made in China	
INVT Solar Technology (Shenzhen) Co., Ltd.	

invt	Grid-tied Solar Inverter
iMars XG110KTR-F	
DC Input	
Vmax. PV	1100V
MPPT Range	180V-1000V
Max. Current	30AX10
Isc PV	40AX10
AC Output	
Nominal Voltage	3/N/PE230/400V
Max. Current	174.6A
Rated Power	110000W
Max. Output Power	121000VA
Frequency	50Hz/60Hz
Power factor range	0.80un - 0.80ov
Environment	
Temperature	-30°C - +60°C
Protective Class	I
Inverter topology	Non-isolated
Ingress protection	IP66
	
Made in China	
INVT Solar Technology (Shenzhen) Co., Ltd.	

invt Grid-tied Solar Inverter	
iMars XG136KTR-L	
DC Input	
V _{max} , PV	1100V
MPPT Range	180V-1000V
Max. Current	26AX12
I _{sc} PV	40AX12
AC Output	
Nominal Voltage	1/N/PE/277/480V
Max. Current	174.6A
Rated Power	136000W
Max. Output Power	150000VA
Frequency	50Hz/60Hz
Power factor range	0.80un - 0.80ov
Environment	
Temperature	-30°C ~ +60°C
Protective Class	I
Inverter topology	Non-isolated
Ingress protection	IP66
	
Made in China	
INVT Solar Technology (Shenzhen) Co., Ltd.	

invt Grid-tied Solar Inverter	
iMars XG136KTR-LF	
DC Input	
V _{max} , PV	1100V
MPPT Range	180V-1000V
Max. Current	30AX12
I _{sc} PV	40AX12
AC Output	
Nominal Voltage	1/N/PE/277/480V
Max. Current	174.6A
Rated Power	136000W
Max. Output Power	150000VA
Frequency	50Hz/60Hz
Power factor range	0.80un - 0.80ov
Environment	
Temperature	-30°C ~ +60°C
Protective Class	I
Inverter topology	Non-isolated
Ingress protection	IP66
	
Made in China	
INVT Solar Technology (Shenzhen) Co., Ltd.	

invt Grid-tied Solar Inverter	
iMars XG136KTR-X	
DC Input	
V _{max} , PV	1100V
MPPT Range	180V-1000V
Max. Current	26AX12
I _{sc} PV	40AX12
AC Output	
Nominal Voltage	1/N/PE/311/540V
Max. Current	160.4A
Rated Power	136000W
Max. Output Power	150000VA
Frequency	50Hz/60Hz
Power factor range	0.80un - 0.80ov
Environment	
Temperature	-30°C ~ +60°C
Protective Class	I
Inverter topology	Non-isolated
Ingress protection	IP66
	
Made in China	
INVT Solar Technology (Shenzhen) Co., Ltd.	

invt Grid-tied Solar Inverter	
iMars XG136KTR-XF	
DC Input	
V _{max} , PV	1100V
MPPT Range	180V-1000V
Max. Current	30AX12
I _{sc} PV	40AX12
AC Output	
Nominal Voltage	1/N/PE/311/540V
Max. Current	160.4A
Rated Power	136000W
Max. Output Power	150000VA
Frequency	50Hz/60Hz
Power factor range	0.80un - 0.80ov
Environment	
Temperature	-30°C ~ +60°C
Protective Class	I
Inverter topology	Non-isolated
Ingress protection	IP66
	
Made in China	
INVT Solar Technology (Shenzhen) Co., Ltd.	

Note:

1. The above markings are the minimum requirements required by the safety standard. For the final production samples, the additional markings which do not give rise to misunderstanding may be added.
2. Label is attached on the side surface of enclosure and visible after installation

Test item particulars	
Temperature range	-30°C - +60°C
AC Overvoltage category	☐ OVC I ☐ OVC II ☒ OVC III ☐ OVC IV
DC Overvoltage category	☐ OVC I ☒ OVC II ☐ OVC III ☐ OVC IV
IP protection class	IP66
Possible test case verdicts:	
- test case does not apply to the test object.....	N/A (Not applicable)
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement	F (Fail)
Testing	
Date of receipt of test item	07 Dec 2022
Date (s) of performance of tests	07 Dec 2022 – 30 Dec 2022
General remarks:	
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. "(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report. Throughout this report a point is used as the decimal separator.	

General product information:

The control system is divided into DC and AC control. AC-DSP and CPLD on the AC side mainly monitors the voltage, current, frequency and GFCI on the grid side, and participates in the inverter control.

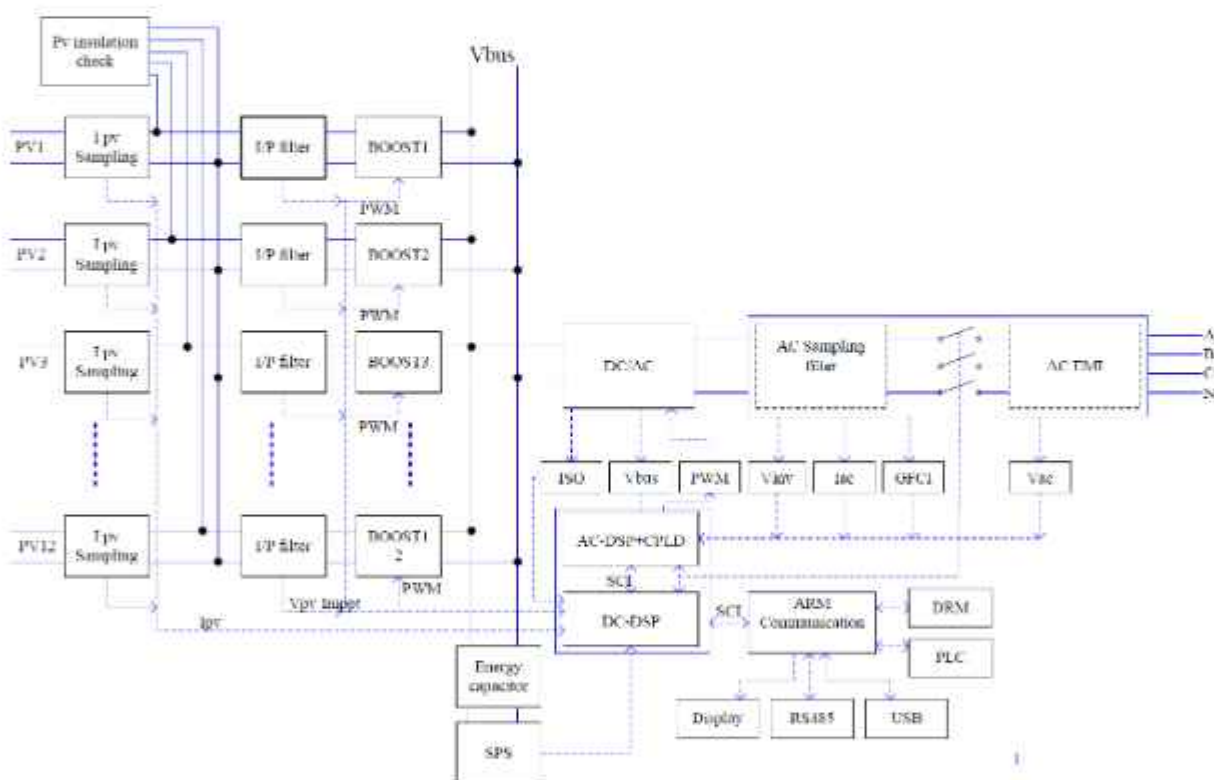
The DC-DSP monitors the voltage, current, and ISO on the PV input side, and participates in the BOOST booster circuit and maximum power MPPT point tracking.

There is an internal communication circuit between the two DSP to coordinate with each other to complete the software function of the whole machine.

The ARM monitoring board does not participate in the control of the whole system. It communicates with the DC-SPS to collect the data of the whole system.

The relays (K3, K4, K5, K6) are designed on redundant structure where K4, K6 are controlled by DC-DSP and K5, K6 are controlled by AC-DSP.

The AC-DSP and DC-DSP are used together to control relay open or close, if the single fault on one controller, the other controller can be capable of opening the relay, so that still providing safety means.



The product was tested on:

Software version: V1.1

Model difference:

All models are identical, except the max. input current, PV Isc and some parameter of the software architecture in order to control the max output power.

The detailed difference as following:

Model	iMars XG100KTR, iMars XG100KTR-F	iMars XG110KTR, iMars XG110KTR-F	iMars XG136KTR-L, iMars XG136KTR-LF	iMars XG136KTR-X, iMars XG136KTR-XF
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PV input	9 strings MPPT Each MPPT: two string input	10 strings MPPT Each MPPT: two string input	12 strings MPPT Each MPPT: two string input	
AC output voltage	230/400Vac		277/480Vac	311/540Vac

Other than special notice, the tests had been performed on the iMars XG110KTR.

Factory information:

Shenzhen INVT Electric Co., Ltd. (Baoan Factory)
4th to 1st floors of Emerson Industrial Park, No. 3, Fengtang Avenue, Tangwei Community, Fuhai Street,
Baoan District, Shenzhen, CHINA.

Tests performed (name of test and test clause):

Allegato N: Prove sui generatori statici, eolici FC (Full converter) e DFIG (Doubly Fed Induction Generator).
Annex N: Testing on static converter, FC (Full converter) and DFIG (Doubly Fed Induction Generator) wind converter.

N.2 Elenco delle prove e condizioni di riferimento <i>Testing list at reference conditions</i>			
Test	§	Ref. standard	Result ¹⁾
Misure per la qualità della tensione <i>/Voltage quality measure</i>	N.3	CEI 0-16:2022-03	PASS
Verifica del campo di funzionamento in tensione e frequenza <i>/Voltage-frequency working range</i>	N.4	CEI 0-16:2022-03	PASS
Verifica delle condizioni di sincronizzazione e presa di carico <i>/synchronization and re-connection</i>	N.5	CEI 0-16:2022-03	PASS
Verifica dei requisiti costruttivi circa lo scambio di potenza reattiva <i>/Reactive power capability</i>	N.6	CEI 0-16:2022-03	PASS
Verifica dei requisiti costruttivi circa la regolazione di potenza attiva <i>/Active power regulation</i>	N.7	CEI 0-16:2022-03	PASS
Verifica della insensibilità agli abbassamenti di tensione <i>/VFRT capability</i>	N.8	CEI 0-16:2022-03	PASS
Verifica della insensibilità alle richiuse automatiche in discordanza di fase <i>/Check of the insensibility to the re-closures when phases are in discordance</i>	N.9	CEI 0-16:2022-03	PASS

N.3 Misure per la qualità della tensione <i>/Voltage quality measure</i>				
Test	§	Requirement	Ref. standard	Result ¹⁾
Misura di correnti armoniche <i>/Harmonics current</i>	N.3.1	N.3	CEI 0-16:2022-03	PASS
	7.4	--	IEC 61400-21	
Misura di fluttuazioni di tensione dovute a manovre di sezionamento/separazione <i>/ Voltage fluctuations caused by Switching operations</i>	N.3.2	N.3	CEI 0-16:2022-03	PASS
	7.3.4	--	IEC 61400-21	
Misura di fluttuazioni di tensione (flicker) in condizioni di funzionamento continuo <i>/Voltage fluctuations (Flickers) during Continuous operation</i>	N.3.3	N.3	CEI 0-16:2022-03	PASS
	6.3.2 7.3.3	--	IEC 61400-21	

N.4 Verifica del campo di funzionamento in tensione e frequenza <i>/Voltage-frequency working range</i>			
Test	§	Ref. standard	Result ¹⁾
Prove a piena potenza su rete simulata <i>/full power test with grid simulator</i>	N.4.1.1	CEI 0-16:2022-03	PASS

N.5 Verifica delle condizioni di sincronizzazione e presa di carico <i>/synchronization and re-connection</i>			
Test	§	Ref. standard	Result ¹⁾
Sincronizzazione e riconnessione. <i>/Synchronization</i>	N.5.1	CEI 0-16:2022-03	PASS
Verifica della erogazione graduale della Potenza attiva (presa di carico) <i>/ gradually erogation of the power</i>	N.5.2	CEI 0-16:2022-03	PASS

N. 6 Verifica dei requisiti costruttivi circa lo scambio di potenza reattiva <i>/Reactive power capability</i>			
Test	Ref. CEI 0-16	Ref. standard	Result ¹⁾
Verifica della capability di erogazione della potenza reattiva <i>/reactive power production capability</i>	N.6.1	CEI 0-16:2022-03	PASS
Scambio di potenza reattiva secondo un livello assegnato <i>/Reactive power production according to an assigned level</i>	N.6.2 Annex I	CEI 0-16:2022-03	PASS
Tempo di risposta ad una variazione a gradino del livello assegnato <i>/Reaction time after a step variation of the assigned level.</i>	N.6.2.1	CEI 0-16:2022-03	PASS
Regolazione automatica di potenza reattiva secondo una curva caratteristica $\cos\phi = f(P)$ <i>/Automatic reactive power production according to a characteristic curve $\cos(\phi)=f(P)$</i>	N.6.3	CEI 0-16:2022-03	PASS
Erogazione/assorbimento automatico di potenza reattiva secondo una curva caratteristica $Q=f(V)$ applicabile a generatori con capability rettangolare <i>/Automatic reactive power production according to a characteristic curve $Q=f(V)$</i>	N.6.4	CEI 0-16:2022-03	PASS

N. 7 Verifica dei requisiti costruttivi circa la regolazione di potenza attiva <i>/ Verification of the construction requirements for active power regulation</i>			
Test	Ref. CEI 0-16	Ref. standard	Result ¹⁾
Limitazione automatica in logica locale, per valori di tensione prossimi al 110% <i>/ Active power limitation for voltage values near to 110 % di Un</i>	N.7.1 8.8.6.4.1 Annex J (§ J.2)	CEI 0-16:2022-03	PASS
Limitazione automatica per transitori di sovrافrequenza originatisi sulla rete <i>/ Automatic limitation for over-frequency transients originating on the network</i>	N.7.2 8.8.6.4.2 Annex J (§ J.3)	CEI 0-16:2022-03	PASS
Incremento automatico per transitori di sottofrequenza originatisi sulla rete <i>/ Automatic increment for under-frequency transients originating on the network.</i>	N.7.3 8.8.6.4.3 Annex K	CEI 0-16:2022-03	Not required
Su comando esterno proveniente dal Distributore, e/o in logica centralizzata <i>/ On external command from the Distributor, and / or in centralized logic</i>	N.7.4 8.8.6.3 Annex M	CEI 0-16:2022-03	PASS
Verifica del tempo di assestamento ad un comando di riduzione di potenza <i>/settling time verification after a power limitation command.</i>	N.7.4.1	CEI 0-16:2022-03	PASS

N.8 VFRT capability			
Test	Ref. CEI 0-16	Ref. standard	Result ¹⁾
Verifica della insensibilità alle variazioni di tensione (VFRT Capability) <i>/ The sensitivity to voltage variations (VFRT capability)</i>	N.8 8.8.6.1	CEI 0-16:2022-03	PASS
LVRT – modalità di esecuzione e registrazione delle prove per i generatori statici <i>/LVRT-Test procedure for static converter</i>	N.8.1	CEI 0-16:2022-03	PASS
OVRT – modalità di esecuzione e registrazione delle prove per i generatori statici <i>/OVRT-Test procedure for static converter</i>	N.8.5	CEI 0-16:2022-03	PASS

N.9 Verifica della insensibilità alle richiuse automatiche in discordanza di fase <i>/Check of the insensibility to the re-closures when phases are in discordance</i>			
Test	Ref. CEI 0-16	Ref. standard	Result ¹⁾
Verifica della insensibilità alle richiuse automatiche in discordanza di fase <i>/Check of the insensibility to the re-closures when phases are in discordance</i>	N.9	CEI 0-16:2022-03	PASS

N.3 Misura di correnti armoniche	
<i>/Harmonics current</i>	
Reference standard:	
IEC 61400-21:2008-08 Ed.2 (§. 7.4)	
Wind turbines	
Part 21: Measurement and assessment of power quality characteristics of grid connected wind turbines	
Ambient temperature (°C)	25
Humidity (RH %)	70
Site	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch - ISO/EN 17025 testing Laboratory
Input voltage	780V

Model: iMars XG100KTR												
Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maxim um value
Nr. /Order	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)
2	0.0771	0.0575	0.0305	0.1244	0.0454	0.0354	0.0985	0.0751	0.0756	0.0874	0.0794	0.1244
3	0.4797	0.6522	0.6792	0.6172	0.6075	0.3512	0.4066	0.4084	0.4523	0.4741	0.4814	0.6792
4	0.0290	0.0474	0.0322	0.0350	0.0484	0.1044	0.1334	0.1521	0.1405	0.1486	0.1961	0.1961
5	0.3584	0.2686	0.3256	0.3004	0.3004	0.3525	0.3505	0.3290	0.3044	0.3284	0.3281	0.3584
6	0.0307	0.0382	0.0320	0.0322	0.0542	0.0776	0.0603	0.0655	0.0515	0.0534	0.0836	0.0836
7	0.2483	0.2257	0.2084	0.1893	0.1174	0.2123	0.2166	0.2132	0.2162	0.2143	0.2042	0.2483
8	0.0169	0.0674	0.0483	0.0606	0.0411	0.0321	0.0306	0.0363	0.0376	0.0401	0.0550	0.0674
9	0.0884	0.3082	0.3113	0.2855	0.3522	0.2370	0.2293	0.2292	0.2276	0.2182	0.2096	0.3522
10	0.0084	0.0335	0.0325	0.0385	0.0855	0.0482	0.0482	0.0566	0.0640	0.0721	0.0831	0.0855
11	0.0149	0.0773	0.0473	0.3011	0.2471	0.1505	0.3241	0.4123	0.4414	0.4421	0.4641	0.4641
12	0.0077	0.0902	0.1005	0.0955	0.0916	0.0991	0.0986	0.0984	0.1004	0.0970	0.0981	0.1005
13	0.0201	0.1976	0.3273	0.0723	0.1476	0.0656	0.2005	0.2835	0.3323	0.3585	0.3844	0.3844
14	0.0063	0.0633	0.0385	0.0412	0.0543	0.0326	0.0513	0.0792	0.0833	0.0864	0.0853	0.0864
15	0.0184	0.1225	0.1021	0.1015	0.2543	0.1156	0.0766	0.0456	0.0431	0.0432	0.0613	0.2543
16	0.0050	0.0562	0.0370	0.0526	0.0546	0.0365	0.0321	0.0453	0.0606	0.0656	0.0691	0.0691
17	0.0075	0.1393	0.0621	0.3205	0.0626	0.0532	0.1734	0.3146	0.3775	0.3931	0.3956	0.3956
18	0.0043	0.0521	0.0603	0.0630	0.0463	0.0631	0.0516	0.0611	0.0792	0.0834	0.0912	0.0912
19	0.0043	0.2184	0.2180	0.2703	0.0995	0.0432	0.1474	0.2294	0.2942	0.3174	0.3321	0.3321
20	0.0036	0.0555	0.0801	0.0992	0.1103	0.0694	0.0775	0.0556	0.0541	0.0672	0.0820	0.1103
21	0.0105	0.2993	0.1995	0.2962	0.1844	0.0850	0.0973	0.1366	0.1754	0.2072	0.2483	0.2993
22	0.0017	0.0932	0.0906	0.1060	0.0904	0.0604	0.0651	0.0585	0.0710	0.1004	0.1320	0.1320
23	0.0067	0.1563	0.1783	0.2021	0.2723	0.1421	0.1266	0.2102	0.3594	0.4776	0.5535	0.5535
24	0.0020	0.0896	0.1195	0.1391	0.1244	0.0892	0.0844	0.0894	0.1085	0.1170	0.1296	0.1391
25	0.0025	0.1675	0.3795	0.2301	0.3852	0.1840	0.1584	0.1801	0.2541	0.3401	0.4186	0.4186
26	0.0018	0.0797	0.1006	0.1182	0.1273	0.1231	0.1261	0.1274	0.1345	0.1342	0.1346	0.1346
27	0.0035	0.1033	0.2066	0.1834	0.2941	0.0944	0.0970	0.1092	0.1146	0.1425	0.1673	0.2941
28	0.0021	0.0618	0.0655	0.0923	0.0893	0.0881	0.0921	0.1351	0.1334	0.1344	0.1271	0.1351
29	0.0037	0.1494	0.2452	0.1254	0.2106	0.3630	0.2426	0.2450	0.2901	0.3985	0.4623	0.4623
30	0.0008	0.0673	0.0715	0.0834	0.0784	0.0771	0.0926	0.1066	0.1090	0.1393	0.1425	0.1425
31	0.0008	0.0792	0.0841	0.1731	0.0992	0.2566	0.1572	0.1633	0.2464	0.3060	0.3571	0.3571
32	0.0006	0.0636	0.0631	0.0596	0.0612	0.0611	0.0584	0.0543	0.0726	0.0776	0.0840	0.0840
33	0.0015	0.1133	0.0493	0.2193	0.0851	0.1073	0.0623	0.0655	0.0884	0.0986	0.1075	0.2193
34	0.0007	0.0362	0.0333	0.0392	0.0420	0.0463	0.0495	0.0504	0.0535	0.0716	0.0756	0.0756
35	0.0020	0.0566	0.0390	0.1165	0.0655	0.2433	0.1463	0.1221	0.1821	0.1871	0.1911	0.2433

Model: iMars XG100KTR												
Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
Nr. /Order	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)
36	0.0005	0.0472	0.0505	0.0445	0.0542	0.0540	0.0492	0.0480	0.0524	0.0616	0.0646	0.0646
37	0.0007	0.0553	0.0683	0.0806	0.0653	0.1161	0.1116	0.0565	0.0905	0.0986	0.0976	0.1161
38	0.0003	0.0272	0.0276	0.0230	0.0273	0.0280	0.0353	0.0283	0.0301	0.0345	0.0326	0.0353
39	0.0005	0.0314	0.0356	0.0244	0.0296	0.0240	0.0321	0.0355	0.0283	0.0361	0.0426	0.0426
40	0.0003	0.0214	0.0223	0.0222	0.0296	0.0261	0.0251	0.0281	0.0282	0.0302	0.0251	0.0302
41	0.0014	0.0799	0.0831	0.1728	0.0985	0.2572	0.1587	0.1651	0.2458	0.3057	0.3566	0.3566
42	0.0005	0.0650	0.0639	0.0594	0.0625	0.0620	0.0579	0.0545	0.0738	0.0780	0.0847	0.0847
43	0.0015	0.1150	0.0511	0.2197	0.0863	0.1086	0.0627	0.0670	0.0883	0.0991	0.1075	0.2197
44	0.0003	0.0382	0.0330	0.0409	0.0421	0.0483	0.0492	0.0521	0.0538	0.0730	0.0764	0.0764
45	0.0014	0.0571	0.0393	0.1177	0.0653	0.2432	0.1456	0.1218	0.1835	0.1876	0.1923	0.2432
46	0.0016	0.0484	0.0512	0.0456	0.0544	0.0547	0.0507	0.0489	0.0516	0.0610	0.0637	0.0637
47	0.0015	0.0565	0.0687	0.0812	0.0659	0.1160	0.1109	0.0567	0.0913	0.0988	0.0985	0.1160
48	0.0008	0.0284	0.0270	0.0245	0.0280	0.0280	0.0361	0.0283	0.0297	0.0357	0.0336	0.0361
49	0.0014	0.0316	0.0359	0.0239	0.0302	0.0247	0.0333	0.0373	0.0291	0.0362	0.0438	0.0438
50	0.0003	0.0217	0.0216	0.0229	0.0289	0.0262	0.0249	0.0281	0.0285	0.0300	0.0259	0.0300

Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
f[Hz]	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)
75	0.0845	0.0738	0.1035	0.1022	0.1007	0.1076	0.1044	0.1051	0.1139	0.1082	0.0087	0.1139
125	0.0317	0.0268	0.0322	0.0330	0.0348	0.0362	0.0352	0.0355	0.0396	0.0369	0.0071	0.0396
175	0.0245	0.0215	0.0270	0.0268	0.0288	0.0303	0.0294	0.0308	0.0329	0.0323	0.0074	0.0329
225	0.0238	0.0294	0.0287	0.0277	0.0277	0.0291	0.0291	0.0303	0.0313	0.0318	0.0096	0.0318
275	0.0214	0.0303	0.0270	0.0266	0.0277	0.0293	0.0287	0.0299	0.0316	0.0306	0.0160	0.0316
325	0.0146	0.0186	0.0238	0.0243	0.0254	0.0265	0.0264	0.0271	0.0288	0.0289	0.0091	0.0289
375	0.0121	0.0190	0.0232	0.0242	0.0243	0.0255	0.0260	0.0264	0.0283	0.0288	0.0095	0.0288
425	0.0093	0.0207	0.0229	0.0234	0.0235	0.0246	0.0248	0.0258	0.0273	0.0282	0.0085	0.0282
475	0.0079	0.0212	0.0232	0.0237	0.0241	0.0252	0.0259	0.0262	0.0282	0.0288	0.0090	0.0288
525	0.0088	0.0244	0.0316	0.0299	0.0313	0.0330	0.0340	0.0349	0.0371	0.0376	0.0105	0.0376
575	0.0089	0.0291	0.0370	0.0371	0.0358	0.0383	0.0388	0.0410	0.0421	0.0425	0.0151	0.0425
625	0.0077	0.0282	0.0339	0.0332	0.0340	0.0356	0.0367	0.0381	0.0398	0.0409	0.0108	0.0409
675	0.0058	0.0247	0.0316	0.0306	0.0312	0.0329	0.0344	0.0357	0.0366	0.0374	0.0098	0.0374
725	0.0038	0.0214	0.0244	0.0252	0.0255	0.0273	0.0280	0.0298	0.0310	0.0310	0.0086	0.0310
775	0.0033	0.0202	0.0249	0.0253	0.0260	0.0271	0.0284	0.0297	0.0304	0.0314	0.0074	0.0314
825	0.0030	0.0224	0.0255	0.0261	0.0270	0.0286	0.0299	0.0307	0.0320	0.0334	0.0098	0.0334
875	0.0028	0.0230	0.0258	0.0267	0.0275	0.0293	0.0305	0.0315	0.0329	0.0341	0.0116	0.0341
925	0.0026	0.0229	0.0267	0.0288	0.0305	0.0312	0.0316	0.0327	0.0342	0.0355	0.0090	0.0355
975	0.0023	0.0241	0.0274	0.0292	0.0309	0.0314	0.0322	0.0341	0.0361	0.0373	0.0120	0.0373
1025	0.0022	0.0229	0.0268	0.0290	0.0303	0.0313	0.0335	0.0356	0.0380	0.0403	0.0100	0.0403
1075	0.0021	0.0233	0.0289	0.0315	0.0333	0.0339	0.0359	0.0384	0.0421	0.0445	0.0090	0.0445
1125	0.0031	0.0351	0.0448	0.0479	0.0503	0.0506	0.0533	0.0577	0.0611	0.0647	0.0140	0.0647
1175	0.0032	0.0393	0.0511	0.0558	0.0570	0.0585	0.0604	0.0661	0.0722	0.0768	0.0198	0.0768
1225	0.0030	0.0409	0.0472	0.0515	0.0544	0.0573	0.0618	0.0668	0.0737	0.0800	0.0144	0.0800
1275	0.0022	0.0340	0.0386	0.0431	0.0459	0.0480	0.0509	0.0550	0.0611	0.0693	0.0156	0.0693
1325	0.0014	0.0241	0.0257	0.0297	0.0315	0.0330	0.0363	0.0401	0.0455	0.0514	0.0112	0.0514
1375	0.0012	0.0226	0.0236	0.0269	0.0295	0.0300	0.0320	0.0354	0.0398	0.0453	0.0093	0.0453
1425	0.0010	0.0226	0.0226	0.0259	0.0279	0.0286	0.0304	0.0331	0.0360	0.0402	0.0126	0.0402
1475	0.0009	0.0222	0.0213	0.0242	0.0266	0.0269	0.0283	0.0301	0.0326	0.0363	0.0185	0.0363
1525	0.0008	0.0214	0.0202	0.0232	0.0249	0.0258	0.0265	0.0281	0.0300	0.0332	0.0124	0.0332
1575	0.0008	0.0205	0.0187	0.0213	0.0223	0.0229	0.0237	0.0255	0.0269	0.0298	0.0187	0.0298
1625	0.0007	0.0187	0.0168	0.0192	0.0205	0.0202	0.0213	0.0229	0.0245	0.0268	0.0147	0.0268
1675	0.0006	0.0182	0.0166	0.0178	0.0192	0.0195	0.0200	0.0208	0.0222	0.0245	0.0104	0.0245
1725	0.0007	0.0206	0.0205	0.0213	0.0228	0.0228	0.0233	0.0234	0.0243	0.0258	0.0229	0.0258
1775	0.0007	0.0235	0.0221	0.0234	0.0253	0.0250	0.0251	0.0257	0.0266	0.0281	0.0169	0.0281
1825	0.0006	0.0226	0.0216	0.0226	0.0241	0.0242	0.0241	0.0254	0.0259	0.0274	0.0122	0.0274
1875	0.0005	0.0177	0.0165	0.0173	0.0190	0.0192	0.0195	0.0201	0.0212	0.0224	0.0123	0.0224
1925	0.0004	0.0131	0.0115	0.0121	0.0131	0.0132	0.0136	0.0140	0.0149	0.0158	0.0089	0.0158
1975	0.0003	0.0123	0.0103	0.0108	0.0116	0.0118	0.0124	0.0126	0.0132	0.0141	0.0079	0.0141

Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
f[KHZ]	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)
2.1	0.0008	0.0626	0.0434	0.0462	0.0531	0.0573	0.0592	0.0564	0.0575	0.0648	0.0785	0.0785
2.3	0.0006	0.0280	0.0480	0.0371	0.0452	0.0474	0.0441	0.0433	0.0421	0.0448	0.0490	0.0490
2.5	0.0005	0.0341	0.0322	0.0354	0.0410	0.0377	0.0365	0.0388	0.0420	0.0503	0.0638	0.0638
2.7	0.0005	0.0491	0.0392	0.0289	0.0281	0.0282	0.0312	0.0325	0.0374	0.0424	0.0523	0.0523
2.9	0.0004	0.0188	0.0310	0.0239	0.0188	0.0210	0.0235	0.0241	0.0261	0.0293	0.0350	0.0350
3.1	0.0004	0.0287	0.0330	0.0473	0.0405	0.0346	0.0385	0.0378	0.0403	0.0426	0.0451	0.0473
3.3	0.0004	0.0280	0.0265	0.0314	0.0390	0.0307	0.0305	0.0307	0.0308	0.0295	0.0301	0.0390
3.5	0.0003	0.0202	0.0255	0.0243	0.0280	0.0297	0.0272	0.0252	0.0276	0.0287	0.0277	0.0297
3.7	0.0003	0.0232	0.0244	0.0241	0.0319	0.0388	0.0335	0.0295	0.0315	0.0329	0.0330	0.0388
3.9	0.0003	0.0262	0.0255	0.0316	0.0275	0.0333	0.0323	0.0323	0.0334	0.0369	0.0372	0.0372
4.1	0.0003	0.0167	0.0160	0.0164	0.0222	0.0179	0.0194	0.0205	0.0207	0.0236	0.0261	0.0261
4.3	0.0003	0.0215	0.0292	0.0209	0.0318	0.0287	0.0308	0.0325	0.0322	0.0363	0.0379	0.0379
4.5	0.0003	0.0199	0.0172	0.0215	0.0241	0.0257	0.0272	0.0281	0.0273	0.0287	0.0311	0.0311
4.7	0.0002	0.0184	0.0207	0.0225	0.0202	0.0218	0.0216	0.0222	0.0238	0.0257	0.0269	0.0269
4.9	0.0002	0.0215	0.0283	0.0222	0.0258	0.0278	0.0295	0.0309	0.0333	0.0350	0.0367	0.0367
5.1	0.0002	0.0210	0.0205	0.0239	0.0233	0.0237	0.0252	0.0270	0.0284	0.0298	0.0296	0.0298
5.3	0.0002	0.0225	0.0192	0.0248	0.0232	0.0224	0.0264	0.0258	0.0271	0.0283	0.0323	0.0323
5.5	0.0002	0.0184	0.0236	0.0210	0.0238	0.0245	0.0279	0.0282	0.0315	0.0361	0.0402	0.0402
5.7	0.0002	0.0239	0.0248	0.0274	0.0295	0.0310	0.0317	0.0331	0.0355	0.0374	0.0396	0.0396
5.9	0.0002	0.0431	0.0455	0.0464	0.0472	0.0472	0.0484	0.0511	0.0511	0.0519	0.0550	0.0550
6.1	0.0002	0.0283	0.0313	0.0302	0.0400	0.0384	0.0425	0.0470	0.0485	0.0488	0.0526	0.0526
6.3	0.0002	0.0352	0.0350	0.0399	0.0423	0.0444	0.0471	0.0474	0.0454	0.0457	0.0482	0.0482
6.5	0.0002	0.0334	0.0290	0.0353	0.0433	0.0419	0.0430	0.0447	0.0466	0.0482	0.0510	0.0510
6.7	0.0002	0.0257	0.0256	0.0281	0.0406	0.0412	0.0450	0.0491	0.0504	0.0504	0.0547	0.0547
6.9	0.0002	0.0323	0.0283	0.0352	0.0480	0.0569	0.0596	0.0623	0.0646	0.0618	0.0655	0.0655
7.1	0.0002	0.0254	0.0321	0.0321	0.0442	0.0533	0.0635	0.0665	0.0664	0.0633	0.0636	0.0665
7.3	0.0002	0.0171	0.0191	0.0233	0.0282	0.0376	0.0472	0.0604	0.0753	0.0808	0.0781	0.0808
7.5	0.0002	0.0165	0.0174	0.0195	0.0239	0.0308	0.0385	0.0495	0.0767	0.1311	0.1537	0.1537
7.7	0.0002	0.0155	0.0162	0.0176	0.0230	0.0283	0.0346	0.0423	0.0676	0.1199	0.1450	0.1450
7.9	0.0001	0.0130	0.0125	0.0125	0.0173	0.0202	0.0252	0.0299	0.0382	0.0444	0.0513	0.0513
8.1	0.0001	0.0135	0.0149	0.0149	0.0190	0.0218	0.0223	0.0242	0.0263	0.0294	0.0343	0.0343
8.3	0.0001	0.0123	0.0139	0.0131	0.0162	0.0154	0.0175	0.0185	0.0198	0.0229	0.0290	0.0290
8.5	0.0001	0.0088	0.0084	0.0091	0.0107	0.0112	0.0119	0.0125	0.0134	0.0146	0.0174	0.0174
8.7	0.0001	0.0098	0.0103	0.0099	0.0112	0.0106	0.0112	0.0116	0.0129	0.0148	0.0187	0.0187
8.9	0.0001	0.0088	0.0084	0.0091	0.0107	0.0106	0.0112	0.0125	0.0129	0.0148	0.0174	0.0174

Model: iMars XG100KTR-F												
Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
Nr. /Order	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)
2	0.0492	0.0812	0.0231	0.1349	0.0448	0.0283	0.1150	0.0912	0.0433	0.0579	0.0538	0.1349
3	0.4149	0.4590	0.8623	0.5376	0.4076	0.3894	0.4950	0.4070	0.5861	0.5947	0.5992	0.8623
4	0.0334	0.0696	0.0206	0.0314	0.0572	0.0660	0.1602	0.2000	0.1259	0.0949	0.1948	0.2000
5	0.2759	0.2734	0.3227	0.2833	0.4353	0.4022	0.2339	0.4771	0.2687	0.2793	0.2726	0.4771
6	0.0196	0.0265	0.0171	0.0406	0.0791	0.0951	0.0424	0.0565	0.0715	0.0686	0.1133	0.1133
7	0.1962	0.2908	0.2302	0.1683	0.1101	0.1599	0.2300	0.1295	0.2497	0.2074	0.2697	0.2908
8	0.0093	0.0887	0.0667	0.0831	0.0355	0.0373	0.0349	0.0523	0.0260	0.0469	0.0325	0.0887
9	0.0545	0.2442	0.3650	0.3369	0.2199	0.2287	0.2313	0.1613	0.1504	0.2324	0.3133	0.3650
10	0.0111	0.0297	0.0436	0.0517	0.1063	0.0460	0.0440	0.0827	0.0483	0.0865	0.0792	0.1063
11	0.0110	0.0537	0.0251	0.3985	0.3309	0.2184	0.4796	0.3111	0.3488	0.3998	0.3705	0.4796
12	0.0050	0.1328	0.0615	0.1339	0.1112	0.0875	0.0958	0.1162	0.0962	0.0911	0.1014	0.1339
13	0.0134	0.2157	0.2827	0.0611	0.1181	0.0643	0.1396	0.2657	0.2654	0.4751	0.2271	0.4751
14	0.0057	0.0698	0.0364	0.0479	0.0749	0.0245	0.0663	0.0592	0.0862	0.0632	0.1092	0.1092
15	0.0175	0.1441	0.1086	0.0553	0.2266	0.1342	0.0441	0.0513	0.0393	0.0388	0.0900	0.2266
16	0.0027	0.0448	0.0241	0.0439	0.0431	0.0346	0.0453	0.0354	0.0312	0.0771	0.0805	0.0805
17	0.0043	0.0952	0.0444	0.4500	0.0386	0.0534	0.1938	0.4434	0.2362	0.2195	0.5109	0.5109
18	0.0053	0.0718	0.0893	0.0912	0.0435	0.0944	0.0329	0.0679	0.1160	0.1043	0.1098	0.1160
19	0.0037	0.2332	0.1133	0.3979	0.1134	0.0445	0.0863	0.1256	0.2736	0.4092	0.2208	0.4092
20	0.0041	0.0751	0.0548	0.0646	0.1369	0.0753	0.0617	0.0466	0.0678	0.0576	0.0913	0.1369
21	0.0077	0.3433	0.2960	0.2916	0.1952	0.0786	0.1456	0.2037	0.1976	0.1326	0.1555	0.3433
22	0.0012	0.1050	0.1086	0.1046	0.0670	0.0694	0.0542	0.0463	0.0538	0.0570	0.1697	0.1697
23	0.0061	0.1401	0.2108	0.1136	0.1557	0.1097	0.1880	0.1752	0.2722	0.2682	0.6232	0.6232
24	0.0015	0.1004	0.0894	0.0839	0.0743	0.1151	0.1108	0.1165	0.1386	0.1272	0.1850	0.1850
25	0.0021	0.1658	0.4309	0.1755	0.1947	0.1588	0.1391	0.2662	0.2289	0.3365	0.5275	0.5275
26	0.0020	0.0710	0.0550	0.0915	0.1512	0.0989	0.1615	0.0910	0.1325	0.0779	0.1335	0.1615
27	0.0045	0.0769	0.1396	0.1229	0.2620	0.0857	0.1421	0.1097	0.0719	0.1995	0.2325	0.2620
28	0.0025	0.0767	0.0651	0.1064	0.0721	0.1254	0.0692	0.0918	0.1303	0.1073	0.0814	0.1303
29	0.0022	0.1790	0.2050	0.1628	0.2518	0.4703	0.1972	0.2345	0.2841	0.4442	0.3588	0.4703
30	0.0010	0.0661	0.0384	0.1042	0.0732	0.0606	0.0507	0.1237	0.1359	0.0857	0.0930	0.1359
31	0.0008	0.0661	0.1230	0.0976	0.1060	0.1611	0.1723	0.1121	0.3541	0.1626	0.1866	0.3541
32	0.0005	0.0571	0.0400	0.0883	0.0904	0.0744	0.0313	0.0661	0.0967	0.0705	0.0621	0.0967
33	0.0020	0.0969	0.0624	0.1346	0.0994	0.0590	0.0646	0.0833	0.1068	0.1320	0.1240	0.1346
34	0.0008	0.0348	0.0451	0.0261	0.0419	0.0261	0.0493	0.0719	0.0744	0.0430	0.0887	0.0887
35	0.0020	0.0334	0.0248	0.1230	0.0644	0.3351	0.1756	0.1399	0.2134	0.2258	0.1271	0.3351
36	0.0006	0.0523	0.0723	0.0633	0.0579	0.0792	0.0544	0.0291	0.0489	0.0430	0.0918	0.0918
37	0.0007	0.0489	0.0795	0.0545	0.0535	0.1239	0.0994	0.0565	0.0682	0.1419	0.0941	0.1419
38	0.0002	0.0281	0.0353	0.0325	0.0336	0.0180	0.0455	0.0422	0.0159	0.0252	0.0421	0.0455
39	0.0004	0.0284	0.0510	0.0246	0.0411	0.0159	0.0243	0.0361	0.0159	0.0489	0.0369	0.0510
40	0.0004	0.0274	0.0112	0.0137	0.0169	0.0304	0.0340	0.0321	0.0173	0.0382	0.0298	0.0382
41	0.0024	0.0658	0.1247	0.0968	0.1066	0.1611	0.1735	0.1132	0.3553	0.1643	0.1880	0.3553
42	0.0010	0.0563	0.0400	0.0897	0.0903	0.0764	0.0307	0.0669	0.0984	0.0704	0.0631	0.0984
43	0.0011	0.0960	0.0624	0.1338	0.1004	0.0594	0.0644	0.0836	0.1059	0.1324	0.1232	0.1338
44	0.0016	0.0354	0.0471	0.0272	0.0417	0.0262	0.0494	0.0732	0.0734	0.0445	0.0883	0.0883
45	0.0010	0.0339	0.0250	0.1223	0.0647	0.3355	0.1754	0.1399	0.2139	0.2254	0.1267	0.3355
46	0.0005	0.0537	0.0713	0.0636	0.0582	0.0783	0.0558	0.0295	0.0490	0.0424	0.0923	0.0923
47	0.0016	0.0505	0.0801	0.0562	0.0531	0.1248	0.0996	0.0561	0.0678	0.1410	0.0946	0.1410

Model: iMars XG100KTR-F												
Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
Nr. /Order	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)
48	0.0005	0.0282	0.0361	0.0316	0.0334	0.0181	0.0460	0.0437	0.0175	0.0252	0.0424	0.0460
49	0.0005	0.0274	0.0529	0.0263	0.0429	0.0174	0.0236	0.0371	0.0170	0.0498	0.0362	0.0529
50	0.0003	0.0269	0.0126	0.0148	0.0178	0.0298	0.0348	0.0332	0.0178	0.0394	0.0313	0.0394

Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
f[Hz]	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)
75	0.1039	0.0633	0.1290	0.0691	0.0520	0.0738	0.1448	0.0530	0.0832	0.0799	0.0058	0.1448
125	0.0467	0.0231	0.0250	0.0466	0.0212	0.0348	0.0269	0.0300	0.0511	0.0388	0.0051	0.0511
175	0.0138	0.0264	0.0312	0.0310	0.0216	0.0174	0.0201	0.0186	0.0458	0.0383	0.0054	0.0458
225	0.0125	0.0316	0.0280	0.0331	0.0326	0.0279	0.0208	0.0267	0.0244	0.0451	0.0134	0.0451
275	0.0118	0.0447	0.0274	0.0219	0.0387	0.0215	0.0156	0.0232	0.0383	0.0202	0.0196	0.0447
325	0.0157	0.0163	0.0230	0.0165	0.0179	0.0369	0.0168	0.0235	0.0227	0.0170	0.0099	0.0369
375	0.0151	0.0111	0.0202	0.0190	0.0255	0.0140	0.0272	0.0228	0.0209	0.0402	0.0140	0.0402
425	0.0053	0.0292	0.0127	0.0237	0.0187	0.0223	0.0212	0.0266	0.0205	0.0409	0.0055	0.0409
475	0.0057	0.0234	0.0245	0.0221	0.0323	0.0244	0.0147	0.0337	0.0322	0.0307	0.0107	0.0337
525	0.0065	0.0289	0.0282	0.0235	0.0162	0.0474	0.0419	0.0249	0.0340	0.0456	0.0115	0.0474
575	0.0107	0.0304	0.0455	0.0187	0.0231	0.0388	0.0371	0.0367	0.0618	0.0392	0.0219	0.0618
625	0.0044	0.0147	0.0503	0.0428	0.0273	0.0441	0.0400	0.0320	0.0205	0.0594	0.0066	0.0594
675	0.0078	0.0292	0.0416	0.0375	0.0311	0.0381	0.0252	0.0399	0.0463	0.0203	0.0106	0.0463
725	0.0027	0.0135	0.0249	0.0216	0.0200	0.0146	0.0193	0.0283	0.0323	0.0265	0.0094	0.0323
775	0.0048	0.0261	0.0154	0.0159	0.0175	0.0314	0.0294	0.0310	0.0217	0.0175	0.0045	0.0314
825	0.0040	0.0114	0.0362	0.0182	0.0244	0.0345	0.0230	0.0213	0.0232	0.0168	0.0089	0.0362
875	0.0017	0.0315	0.0348	0.0341	0.0167	0.0366	0.0288	0.0438	0.0364	0.0391	0.0098	0.0438
925	0.0036	0.0222	0.0138	0.0161	0.0255	0.0369	0.0310	0.0233	0.0253	0.0381	0.0129	0.0381
975	0.0020	0.0143	0.0345	0.0148	0.0213	0.0436	0.0236	0.0487	0.0447	0.0199	0.0101	0.0487
1025	0.0029	0.0260	0.0379	0.0301	0.0177	0.0166	0.0236	0.0503	0.0479	0.0545	0.0073	0.0545
1075	0.0031	0.0200	0.0271	0.0277	0.0239	0.0268	0.0452	0.0354	0.0329	0.0630	0.0086	0.0630
1125	0.0040	0.0300	0.0344	0.0525	0.0547	0.0613	0.0464	0.0319	0.0789	0.0325	0.0145	0.0789
1175	0.0020	0.0287	0.0267	0.0764	0.0432	0.0470	0.0768	0.0614	0.0636	0.0613	0.0226	0.0768
1225	0.0015	0.0539	0.0289	0.0649	0.0320	0.0692	0.0604	0.0976	0.0425	0.0830	0.0091	0.0976
1275	0.0018	0.0400	0.0467	0.0313	0.0683	0.0682	0.0313	0.0825	0.0641	0.0709	0.0081	0.0825
1325	0.0007	0.0302	0.0298	0.0435	0.0171	0.0343	0.0528	0.0409	0.0516	0.0352	0.0139	0.0528
1375	0.0009	0.0233	0.0130	0.0366	0.0385	0.0376	0.0279	0.0183	0.0448	0.0571	0.0064	0.0571
1425	0.0011	0.0207	0.0161	0.0135	0.0194	0.0148	0.0410	0.0172	0.0494	0.0206	0.0101	0.0494
1475	0.0009	0.0204	0.0192	0.0162	0.0215	0.0259	0.0217	0.0252	0.0430	0.0398	0.0178	0.0430
1525	0.0008	0.0108	0.0279	0.0337	0.0209	0.0246	0.0197	0.0244	0.0402	0.0183	0.0079	0.0402
1575	0.0005	0.0255	0.0113	0.0260	0.0332	0.0332	0.0220	0.0363	0.0170	0.0304	0.0264	0.0363
1625	0.0006	0.0217	0.0188	0.0146	0.0147	0.0183	0.0253	0.0257	0.0315	0.0320	0.0188	0.0320
1675	0.0005	0.0139	0.0182	0.0119	0.0261	0.0229	0.0206	0.0247	0.0308	0.0147	0.0055	0.0308
1725	0.0010	0.0184	0.0141	0.0116	0.0146	0.0307	0.0263	0.0283	0.0264	0.0166	0.0159	0.0307
1775	0.0005	0.0123	0.0164	0.0293	0.0270	0.0139	0.0147	0.0146	0.0227	0.0153	0.0123	0.0293
1825	0.0007	0.0187	0.0307	0.0290	0.0253	0.0179	0.0192	0.0218	0.0360	0.0329	0.0131	0.0360
1875	0.0005	0.0139	0.0197	0.0117	0.0185	0.0133	0.0144	0.0223	0.0233	0.0228	0.0098	0.0233
1925	0.0003	0.0171	0.0130	0.0146	0.0147	0.0067	0.0204	0.0192	0.0189	0.0181	0.0125	0.0204
1975	0.0004	0.0099	0.0127	0.0072	0.0167	0.0157	0.0143	0.0147	0.0085	0.0144	0.0105	0.0167

Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
f[KHZ]	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)
2.1	0.0012	0.0379	0.0638	0.0486	0.0493	0.0822	0.0577	0.0694	0.0538	0.0609	0.0509	0.0822
2.3	0.0008	0.0358	0.0551	0.0405	0.0641	0.0627	0.0403	0.0567	0.0494	0.0249	0.0251	0.0641
2.5	0.0003	0.0376	0.0271	0.0278	0.0351	0.0373	0.0216	0.0578	0.0556	0.0588	0.0913	0.0913
2.7	0.0005	0.0485	0.0337	0.0413	0.0313	0.0297	0.0164	0.0422	0.0215	0.0634	0.0741	0.0741
2.9	0.0004	0.0278	0.0294	0.0206	0.0118	0.0291	0.0347	0.0174	0.0273	0.0351	0.0522	0.0522
3.1	0.0006	0.0201	0.0233	0.0416	0.0207	0.0477	0.0346	0.0226	0.0601	0.0631	0.0398	0.0631
3.3	0.0004	0.0170	0.0191	0.0259	0.0558	0.0212	0.0212	0.0384	0.0214	0.0284	0.0386	0.0558
3.5	0.0004	0.0167	0.0204	0.0267	0.0164	0.0374	0.0342	0.0255	0.0393	0.0179	0.0172	0.0393
3.7	0.0003	0.0217	0.0172	0.0332	0.0233	0.0535	0.0263	0.0380	0.0323	0.0277	0.0273	0.0535
3.9	0.0003	0.0175	0.0137	0.0257	0.0281	0.0406	0.0339	0.0358	0.0468	0.0293	0.0193	0.0468
4.1	0.0003	0.0197	0.0223	0.0164	0.0294	0.0230	0.0238	0.0302	0.0185	0.0262	0.0373	0.0373
4.3	0.0004	0.0262	0.0411	0.0280	0.0188	0.0242	0.0376	0.0471	0.0299	0.0476	0.0276	0.0476
4.5	0.0003	0.0226	0.0154	0.0320	0.0269	0.0363	0.0348	0.0248	0.0405	0.0234	0.0249	0.0405
4.7	0.0002	0.0260	0.0180	0.0264	0.0172	0.0232	0.0145	0.0286	0.0171	0.0306	0.0303	0.0306
4.9	0.0001	0.0203	0.0184	0.0264	0.0209	0.0399	0.0230	0.0311	0.0324	0.0399	0.0527	0.0527
5.1	0.0002	0.0130	0.0146	0.0269	0.0331	0.0341	0.0155	0.0246	0.0189	0.0258	0.0302	0.0341
5.3	0.0001	0.0214	0.0149	0.0278	0.0159	0.0297	0.0283	0.0368	0.0173	0.0380	0.0428	0.0428
5.5	0.0002	0.0099	0.0333	0.0122	0.0226	0.0265	0.0326	0.0408	0.0194	0.0503	0.0295	0.0503
5.7	0.0002	0.0330	0.0253	0.0247	0.0386	0.0190	0.0218	0.0172	0.0381	0.0421	0.0337	0.0421
5.9	0.0002	0.0381	0.0384	0.0682	0.0659	0.0555	0.0597	0.0482	0.0713	0.0558	0.0531	0.0713
6.1	0.0003	0.0269	0.0459	0.0163	0.0279	0.0410	0.0446	0.0280	0.0398	0.0539	0.0502	0.0539
6.3	0.0002	0.0190	0.0238	0.0554	0.0361	0.0353	0.0670	0.0442	0.0351	0.0438	0.0603	0.0670
6.5	0.0002	0.0444	0.0230	0.0374	0.0472	0.0586	0.0400	0.0391	0.0335	0.0603	0.0704	0.0704
6.7	0.0002	0.0216	0.0263	0.0298	0.0346	0.0572	0.0548	0.0323	0.0362	0.0506	0.0670	0.0670
6.9	0.0002	0.0310	0.0199	0.0190	0.0286	0.0602	0.0308	0.0451	0.0877	0.0700	0.0669	0.0877
7.1	0.0001	0.0300	0.0267	0.0453	0.0634	0.0450	0.0357	0.0956	0.0505	0.0621	0.0796	0.0956
7.3	0.0002	0.0245	0.0198	0.0283	0.0169	0.0417	0.0401	0.0669	0.0978	0.1130	0.0392	0.1130
7.5	0.0002	0.0220	0.0162	0.0109	0.0289	0.0399	0.0481	0.0563	0.0839	0.1110	0.2270	0.2270
7.7	0.0002	0.0086	0.0152	0.0213	0.0148	0.0364	0.0353	0.0398	0.0612	0.1589	0.1469	0.1589
7.9	0.0001	0.0071	0.0078	0.0108	0.0240	0.0155	0.0295	0.0330	0.0532	0.0650	0.0758	0.0758
8.1	0.0001	0.0106	0.0178	0.0128	0.0159	0.0180	0.0204	0.0244	0.0362	0.0431	0.0191	0.0431
8.3	0.0001	0.0131	0.0108	0.0158	0.0179	0.0188	0.0153	0.0101	0.0134	0.0186	0.0218	0.0218
8.5	0.0001	0.0064	0.0115	0.0134	0.0145	0.0146	0.0177	0.0140	0.0092	0.0174	0.0192	0.0192
8.7	0.0001	0.0051	0.0101	0.0101	0.0072	0.0154	0.0153	0.0162	0.0129	0.0195	0.0152	0.0195
8.9	0.0001	0.0129	0.0097	0.0108	0.0159	0.0112	0.0101	0.0125	0.0151	0.0135	0.0198	0.0198

Model: iMars XG110KTR												
Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
Nr. /Order	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)
2	0.0462	0.0652	0.0288	0.1341	0.0598	0.0184	0.1146	0.1325	0.0523	0.0449	0.0696	0.1341
3	0.5360	0.2651	1.2652	0.5742	0.2471	0.3994	0.3024	0.5534	0.3901	0.5659	0.5250	1.2652
4	0.0465	0.0847	0.0189	0.0306	0.0290	0.0401	0.2170	0.1779	0.1498	0.1144	0.1575	0.2170
5	0.3139	0.2458	0.3873	0.2978	0.5411	0.4585	0.1501	0.5411	0.1943	0.2359	0.1580	0.5411
6	0.0143	0.0349	0.0222	0.0210	0.1124	0.1168	0.0332	0.0520	0.0574	0.0598	0.0756	0.1168
7	0.2524	0.2357	0.2103	0.2518	0.1540	0.1164	0.1784	0.1822	0.2966	0.2057	0.2793	0.2966
8	0.0075	0.1029	0.0363	0.0579	0.0464	0.0288	0.0446	0.0629	0.0261	0.0463	0.0303	0.1029
9	0.0608	0.1383	0.2115	0.2365	0.1150	0.2284	0.3369	0.1944	0.1313	0.1968	0.4397	0.4397
10	0.0092	0.0204	0.0456	0.0363	0.0833	0.0459	0.0307	0.0944	0.0639	0.0682	0.1163	0.1163
11	0.0085	0.0757	0.0323	0.5874	0.2013	0.1969	0.4506	0.3879	0.2306	0.3180	0.3941	0.5874
12	0.0053	0.0871	0.0556	0.0756	0.0805	0.0869	0.1287	0.1689	0.0839	0.0670	0.0613	0.1689
13	0.0160	0.1917	0.2101	0.0508	0.1748	0.0870	0.0880	0.2780	0.3962	0.4144	0.1338	0.4144
14	0.0062	0.1000	0.0439	0.0485	0.0493	0.0360	0.0654	0.0835	0.0733	0.0368	0.1632	0.1632
15	0.0244	0.1146	0.0597	0.0772	0.2251	0.0738	0.0520	0.0281	0.0573	0.0411	0.1346	0.2251
16	0.0032	0.0331	0.0250	0.0619	0.0587	0.0359	0.0490	0.0383	0.0343	0.0459	0.1174	0.1174
17	0.0027	0.0902	0.0480	0.5543	0.0450	0.0331	0.0999	0.2351	0.3263	0.2787	0.4821	0.5543
18	0.0046	0.1015	0.0713	0.0978	0.0492	0.0784	0.0389	0.0481	0.1084	0.1038	0.0682	0.1084
19	0.0022	0.2023	0.1406	0.3069	0.1093	0.0370	0.0468	0.0679	0.3538	0.2708	0.2484	0.3538
20	0.0027	0.0814	0.0634	0.0402	0.1631	0.1054	0.0316	0.0257	0.0749	0.0506	0.1347	0.1631
21	0.0060	0.1947	0.3373	0.3382	0.2410	0.0758	0.1704	0.2547	0.1739	0.1037	0.1425	0.3382
22	0.0016	0.0978	0.0830	0.1232	0.0337	0.0450	0.0640	0.0330	0.0797	0.0587	0.2289	0.2289
23	0.0076	0.2085	0.1823	0.0596	0.0797	0.1063	0.2619	0.1718	0.3864	0.2016	0.7993	0.7993
24	0.0022	0.1429	0.0512	0.0557	0.0387	0.0958	0.0734	0.1516	0.1504	0.1243	0.1966	0.1966
25	0.0020	0.0911	0.4568	0.1776	0.1411	0.1862	0.2060	0.2035	0.2204	0.4010	0.6771	0.6771
26	0.0022	0.0757	0.0745	0.0464	0.1829	0.0585	0.2334	0.0620	0.1468	0.0779	0.1145	0.2334
27	0.0047	0.0930	0.1353	0.1049	0.2209	0.1076	0.1713	0.1560	0.0985	0.1902	0.2603	0.2603
28	0.0034	0.0474	0.0585	0.0916	0.0886	0.0787	0.0456	0.1201	0.1398	0.0770	0.0550	0.1398
29	0.0022	0.2167	0.2125	0.1872	0.2900	0.2417	0.1577	0.1819	0.2593	0.4096	0.2547	0.4096
30	0.0013	0.0458	0.0331	0.1192	0.0555	0.0344	0.0663	0.1213	0.0975	0.0739	0.1259	0.1259
31	0.0006	0.0548	0.1156	0.1031	0.1292	0.1919	0.2414	0.0771	0.2827	0.2418	0.1491	0.2827
32	0.0005	0.0332	0.0302	0.1190	0.0788	0.0650	0.0395	0.0844	0.1391	0.0562	0.0410	0.1391
33	0.0025	0.1336	0.0838	0.0733	0.0717	0.0789	0.0687	0.0841	0.1392	0.1185	0.1074	0.1392
34	0.0005	0.0301	0.0409	0.0226	0.0483	0.0222	0.0522	0.0505	0.1113	0.0369	0.0625	0.1113
35	0.0017	0.0261	0.0167	0.0685	0.0451	0.4672	0.1420	0.1352	0.1970	0.2143	0.1760	0.4672
36	0.0005	0.0291	0.1071	0.0566	0.0688	0.0780	0.0701	0.0374	0.0470	0.0386	0.0812	0.1071
37	0.0005	0.0606	0.0826	0.0670	0.0456	0.1750	0.0830	0.0673	0.0836	0.0790	0.0603	0.1750
38	0.0002	0.0238	0.0326	0.0423	0.0477	0.0112	0.0324	0.0453	0.0145	0.0191	0.0331	0.0477
39	0.0004	0.0379	0.0554	0.0252	0.0335	0.0178	0.0300	0.0385	0.0107	0.0340	0.0547	0.0554
40	0.0005	0.0182	0.0092	0.0074	0.0095	0.0353	0.0466	0.0236	0.0171	0.0519	0.0333	0.0519
41	0.0002	0.0553	0.1171	0.1033	0.1304	0.1930	0.2415	0.0780	0.2834	0.2425	0.1484	0.2834
42	0.0013	0.0329	0.0321	0.1202	0.0801	0.0642	0.0391	0.0835	0.1409	0.0564	0.0422	0.1409
43	0.0012	0.1348	0.0840	0.0738	0.0708	0.0785	0.0697	0.0854	0.1409	0.1192	0.1084	0.1409
44	0.0001	0.0295	0.0410	0.0244	0.0499	0.0216	0.0516	0.0518	0.1122	0.0378	0.0638	0.1122
45	0.0008	0.0259	0.0169	0.0677	0.0458	0.4687	0.1428	0.1356	0.1972	0.2140	0.1760	0.4687
46	0.0008	0.0309	0.1070	0.0563	0.0706	0.0791	0.0700	0.0376	0.0477	0.0388	0.0806	0.1070
47	0.0015	0.0611	0.0829	0.0664	0.0464	0.1748	0.0849	0.0674	0.0851	0.0794	0.0602	0.1748

Model: iMars XG110KTR												
Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
Nr. /Order	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)
48	0.0022	0.0252	0.0327	0.0436	0.0487	0.0123	0.0321	0.0458	0.0139	0.0201	0.0342	0.0487
49	0.0017	0.0386	0.0556	0.0263	0.0344	0.0190	0.0303	0.0395	0.0115	0.0331	0.0552	0.0556
50	0.0018	0.0200	0.0111	0.0075	0.0086	0.0372	0.0457	0.0245	0.0170	0.0520	0.0328	0.0520

Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
f[Hz]	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)
75	0.0883	0.0630	0.0844	0.0629	0.0354	0.0383	0.2046	0.0545	0.1031	0.0513	0.0058	0.2046
125	0.0340	0.0204	0.0191	0.0635	0.0313	0.0305	0.0280	0.0414	0.0350	0.0471	0.0066	0.0635
175	0.0076	0.0374	0.0284	0.0227	0.0204	0.0112	0.0135	0.0264	0.0454	0.0502	0.0037	0.0502
225	0.0165	0.0398	0.0178	0.0443	0.0227	0.0225	0.0167	0.0234	0.0141	0.0309	0.0108	0.0443
275	0.0125	0.0484	0.0327	0.0210	0.0289	0.0134	0.0083	0.0344	0.0228	0.0297	0.0104	0.0484
325	0.0185	0.0241	0.0121	0.0104	0.0222	0.0324	0.0096	0.0261	0.0317	0.0253	0.0050	0.0324
375	0.0135	0.0093	0.0125	0.0105	0.0300	0.0156	0.0317	0.0155	0.0261	0.0247	0.0180	0.0317
425	0.0074	0.0202	0.0079	0.0201	0.0261	0.0223	0.0181	0.0217	0.0271	0.0397	0.0036	0.0397
475	0.0031	0.0127	0.0192	0.0112	0.0271	0.0268	0.0127	0.0270	0.0213	0.0376	0.0059	0.0376
525	0.0088	0.0251	0.0371	0.0132	0.0120	0.0518	0.0457	0.0174	0.0347	0.0496	0.0112	0.0518
575	0.0097	0.0163	0.0535	0.0114	0.0238	0.0320	0.0270	0.0359	0.0821	0.0208	0.0122	0.0821
625	0.0031	0.0143	0.0276	0.0272	0.0366	0.0659	0.0443	0.0445	0.0121	0.0878	0.0095	0.0878
675	0.0113	0.0361	0.0473	0.0293	0.0230	0.0215	0.0205	0.0271	0.0686	0.0119	0.0115	0.0686
725	0.0038	0.0156	0.0178	0.0203	0.0253	0.0104	0.0171	0.0155	0.0390	0.0165	0.0075	0.0390
775	0.0043	0.0340	0.0140	0.0211	0.0155	0.0392	0.0292	0.0196	0.0149	0.0237	0.0038	0.0392
825	0.0047	0.0071	0.0542	0.0095	0.0141	0.0497	0.0265	0.0307	0.0298	0.0171	0.0072	0.0542
875	0.0019	0.0236	0.0498	0.0274	0.0238	0.0269	0.0425	0.0542	0.0240	0.0209	0.0096	0.0542
925	0.0027	0.0147	0.0182	0.0167	0.0378	0.0202	0.0266	0.0137	0.0262	0.0235	0.0124	0.0378
975	0.0029	0.0207	0.0484	0.0099	0.0194	0.0505	0.0204	0.0297	0.0477	0.0162	0.0075	0.0505
1025	0.0023	0.0200	0.0503	0.0352	0.0126	0.0247	0.0288	0.0493	0.0669	0.0649	0.0068	0.0669
1075	0.0028	0.0252	0.0218	0.0389	0.0154	0.0308	0.0252	0.0335	0.0267	0.0926	0.0056	0.0926
1125	0.0035	0.0290	0.0456	0.0390	0.0460	0.0769	0.0466	0.0200	0.0667	0.0251	0.0193	0.0769
1175	0.0010	0.0381	0.0285	0.0891	0.0408	0.0663	0.0963	0.0797	0.0394	0.0494	0.0243	0.0963
1225	0.0008	0.0431	0.0251	0.0555	0.0346	0.0543	0.0731	0.1358	0.0342	0.0545	0.0081	0.1358
1275	0.0017	0.0326	0.0406	0.0352	0.0818	0.0506	0.0436	0.1117	0.0385	0.0899	0.0041	0.1117
1325	0.0006	0.0384	0.0283	0.0351	0.0174	0.0295	0.0451	0.0607	0.0261	0.0300	0.0123	0.0607
1375	0.0008	0.0296	0.0184	0.0345	0.0384	0.0469	0.0156	0.0097	0.0521	0.0802	0.0092	0.0802
1425	0.0015	0.0110	0.0159	0.0132	0.0138	0.0190	0.0440	0.0217	0.0697	0.0189	0.0151	0.0697
1475	0.0008	0.0215	0.0147	0.0222	0.0282	0.0339	0.0242	0.0308	0.0588	0.0278	0.0138	0.0588
1525	0.0006	0.0095	0.0371	0.0346	0.0280	0.0344	0.0234	0.0192	0.0339	0.0221	0.0085	0.0371
1575	0.0004	0.0141	0.0093	0.0251	0.0465	0.0465	0.0195	0.0494	0.0204	0.0252	0.0384	0.0494
1625	0.0007	0.0221	0.0098	0.0189	0.0186	0.0102	0.0282	0.0215	0.0253	0.0451	0.0272	0.0451
1675	0.0004	0.0176	0.0209	0.0141	0.0317	0.0283	0.0216	0.0363	0.0356	0.0075	0.0068	0.0363
1725	0.0006	0.0200	0.0104	0.0148	0.0077	0.0377	0.0229	0.0177	0.0268	0.0148	0.0204	0.0377
1775	0.0005	0.0132	0.0108	0.0257	0.0360	0.0149	0.0110	0.0217	0.0221	0.0175	0.0146	0.0360
1825	0.0008	0.0195	0.0394	0.0222	0.0330	0.0251	0.0134	0.0306	0.0423	0.0260	0.0116	0.0423
1875	0.0005	0.0152	0.0255	0.0119	0.0223	0.0167	0.0117	0.0309	0.0153	0.0191	0.0114	0.0309
1925	0.0004	0.0107	0.0098	0.0121	0.0075	0.0061	0.0188	0.0180	0.0197	0.0209	0.0145	0.0209
1975	0.0003	0.0147	0.0147	0.0084	0.0127	0.0175	0.0123	0.0159	0.0071	0.0132	0.0084	0.0175

Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
f[KHZ]	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)
2.1	0.0011	0.0495	0.0592	0.0380	0.0327	0.0724	0.0887	0.0724	0.0618	0.0410	0.0726	0.0887
2.3	0.0008	0.0263	0.0598	0.0461	0.0294	0.0697	0.0326	0.0354	0.0573	0.0633	0.0724	0.0724
2.5	0.0005	0.0404	0.0165	0.0528	0.0234	0.0227	0.0328	0.0198	0.0330	0.0378	0.0878	0.0878
2.7	0.0006	0.0633	0.0267	0.0192	0.0279	0.0410	0.0316	0.0344	0.0452	0.0468	0.0605	0.0633
2.9	0.0004	0.0244	0.0237	0.0344	0.0271	0.0293	0.0309	0.0185	0.0197	0.0369	0.0502	0.0502
3.1	0.0004	0.0236	0.0441	0.0468	0.0598	0.0317	0.0237	0.0319	0.0515	0.0453	0.0627	0.0627
3.3	0.0003	0.0362	0.0359	0.0268	0.0379	0.0315	0.0229	0.0304	0.0165	0.0324	0.0166	0.0379
3.5	0.0004	0.0161	0.0320	0.0211	0.0168	0.0171	0.0191	0.0363	0.0273	0.0423	0.0151	0.0423
3.7	0.0002	0.0253	0.0236	0.0171	0.0396	0.0555	0.0233	0.0205	0.0448	0.0378	0.0336	0.0555
3.9	0.0003	0.0304	0.0340	0.0392	0.0185	0.0300	0.0257	0.0281	0.0220	0.0479	0.0338	0.0479
4.1	0.0003	0.0191	0.0214	0.0097	0.0327	0.0218	0.0282	0.0248	0.0227	0.0292	0.0220	0.0327
4.3	0.0004	0.0270	0.0222	0.0234	0.0193	0.0314	0.0334	0.0224	0.0189	0.0490	0.0292	0.0490
4.5	0.0002	0.0111	0.0166	0.0207	0.0330	0.0338	0.0223	0.0216	0.0137	0.0289	0.0270	0.0338
4.7	0.0002	0.0161	0.0134	0.0269	0.0225	0.0253	0.0289	0.0158	0.0232	0.0227	0.0243	0.0289
4.9	0.0003	0.0261	0.0357	0.0223	0.0307	0.0279	0.0411	0.0397	0.0313	0.0400	0.0242	0.0411
5.1	0.0003	0.0283	0.0134	0.0293	0.0297	0.0283	0.0217	0.0217	0.0294	0.0328	0.0156	0.0328
5.3	0.0003	0.0242	0.0169	0.0300	0.0288	0.0287	0.0313	0.0167	0.0212	0.0150	0.0269	0.0313
5.5	0.0002	0.0185	0.0350	0.0106	0.0356	0.0337	0.0160	0.0165	0.0460	0.0414	0.0584	0.0584
5.7	0.0002	0.0122	0.0171	0.0157	0.0303	0.0175	0.0361	0.0434	0.0286	0.0354	0.0466	0.0466
5.9	0.0003	0.0285	0.0602	0.0288	0.0325	0.0573	0.0417	0.0501	0.0685	0.0571	0.0438	0.0685
6.1	0.0001	0.0347	0.0186	0.0268	0.0241	0.0371	0.0234	0.0643	0.0571	0.0426	0.0349	0.0643
6.3	0.0002	0.0299	0.0180	0.0295	0.0468	0.0476	0.0659	0.0448	0.0315	0.0373	0.0718	0.0718
6.5	0.0001	0.0235	0.0239	0.0306	0.0605	0.0274	0.0556	0.0570	0.0383	0.0346	0.0432	0.0605
6.7	0.0002	0.0229	0.0179	0.0205	0.0268	0.0561	0.0622	0.0370	0.0708	0.0622	0.0462	0.0708
6.9	0.0003	0.0400	0.0292	0.0439	0.0590	0.0569	0.0571	0.0782	0.0887	0.0694	0.0793	0.0887
7.1	0.0001	0.0238	0.0330	0.0375	0.0508	0.0394	0.0802	0.0794	0.0679	0.0563	0.0801	0.0802
7.3	0.0002	0.0176	0.0172	0.0204	0.0304	0.0457	0.0686	0.0513	0.1085	0.0963	0.0430	0.1085
7.5	0.0001	0.0112	0.0250	0.0152	0.0133	0.0237	0.0366	0.0578	0.0499	0.1260	0.1794	0.1794
7.7	0.0003	0.0120	0.0100	0.0225	0.0303	0.0321	0.0223	0.0281	0.0504	0.1175	0.1718	0.1718
7.9	0.0001	0.0087	0.0172	0.0130	0.0228	0.0201	0.0139	0.0163	0.0305	0.0539	0.0500	0.0539
8.1	0.0001	0.0134	0.0201	0.0130	0.0187	0.0147	0.0248	0.0313	0.0144	0.0220	0.0312	0.0313
8.3	0.0001	0.0174	0.0156	0.0144	0.0228	0.0125	0.0170	0.0186	0.0272	0.0170	0.0169	0.0272
8.5	0.0001	0.0051	0.0090	0.0056	0.0143	0.0060	0.0124	0.0135	0.0089	0.0098	0.0208	0.0208
8.7	0.0001	0.0064	0.0084	0.0050	0.0088	0.0137	0.0147	0.0061	0.0070	0.0142	0.0206	0.0206
8.9	0.0001	0.0059	0.0103	0.0069	0.0081	0.0115	0.0140	0.0184	0.0125	0.0179	0.0121	0.0184

Model: iMars XG110KTR-F												
Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
Nr. /Order	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)
2	0.0559	0.0420	0.0183	0.0764	0.0315	0.0183	0.1553	0.0726	0.0275	0.0741	0.0328	0.1553
3	0.6100	0.3789	0.5485	0.6550	0.2374	0.2187	0.5387	0.2204	0.4168	0.7068	0.4715	0.7068
4	0.0242	0.0661	0.0142	0.0326	0.0340	0.0878	0.0829	0.1191	0.1373	0.0577	0.1417	0.1417
5	0.2545	0.1443	0.3716	0.1817	0.4936	0.2102	0.2508	0.4306	0.1573	0.2433	0.2170	0.4936
6	0.0243	0.0234	0.0218	0.0362	0.0912	0.1069	0.0469	0.0637	0.0911	0.0549	0.0775	0.1069
7	0.1386	0.2118	0.1908	0.1033	0.0684	0.2305	0.1331	0.1767	0.3601	0.2416	0.3752	0.3752
8	0.0071	0.1219	0.0866	0.0954	0.0363	0.0265	0.0214	0.0405	0.0154	0.0334	0.0242	0.1219
9	0.0705	0.2327	0.1891	0.4971	0.2868	0.2623	0.2150	0.1356	0.2048	0.3402	0.3398	0.4971
10	0.0056	0.0330	0.0273	0.0284	0.1418	0.0231	0.0254	0.1222	0.0467	0.0746	0.0817	0.1418
11	0.0059	0.0310	0.0244	0.2937	0.4949	0.1532	0.5657	0.3230	0.4689	0.5484	0.2121	0.5657
12	0.0053	0.1336	0.0448	0.2002	0.0631	0.1134	0.1039	0.1589	0.0909	0.1268	0.0678	0.2002
13	0.0112	0.1569	0.2180	0.0904	0.1442	0.0637	0.1236	0.3544	0.1827	0.5680	0.3155	0.5680
14	0.0078	0.0450	0.0211	0.0361	0.0527	0.0135	0.0975	0.0503	0.0630	0.0521	0.0579	0.0975
15	0.0182	0.1873	0.1013	0.0811	0.2481	0.0973	0.0659	0.0351	0.0472	0.0440	0.0975	0.2481
16	0.0016	0.0415	0.0193	0.0390	0.0433	0.0489	0.0626	0.0178	0.0445	0.1042	0.1091	0.1091
17	0.0057	0.1059	0.0561	0.2768	0.0363	0.0671	0.1410	0.5235	0.1472	0.1479	0.4793	0.5235
18	0.0058	0.0635	0.1026	0.0930	0.0640	0.0697	0.0231	0.0854	0.0718	0.1505	0.0859	0.1505
19	0.0032	0.3219	0.0756	0.3181	0.1077	0.0486	0.0765	0.1198	0.3215	0.5306	0.1591	0.5306
20	0.0029	0.0803	0.0576	0.0527	0.1415	0.1007	0.0510	0.0316	0.0681	0.0543	0.0919	0.1415
21	0.0092	0.5022	0.2888	0.3613	0.2903	0.0538	0.1957	0.2646	0.1372	0.1850	0.1842	0.5022
22	0.0007	0.1574	0.0732	0.0987	0.0606	0.0450	0.0674	0.0255	0.0532	0.0764	0.1476	0.1574
23	0.0073	0.0719	0.1370	0.0724	0.1364	0.0715	0.1147	0.1240	0.2736	0.3636	0.9289	0.9289
24	0.0016	0.0728	0.1275	0.0636	0.0495	0.1171	0.0976	0.0831	0.1387	0.0681	0.2551	0.2551
25	0.0027	0.1149	0.3867	0.1867	0.2263	0.1549	0.1996	0.2285	0.1817	0.1855	0.6397	0.6397
26	0.0011	0.0765	0.0811	0.1167	0.1976	0.1186	0.1172	0.0697	0.1461	0.0591	0.0979	0.1976
27	0.0033	0.0981	0.1704	0.1481	0.2588	0.0441	0.2069	0.1183	0.0851	0.2151	0.3369	0.3369
28	0.0020	0.0540	0.0684	0.0641	0.0475	0.1467	0.0742	0.0582	0.1930	0.0801	0.1025	0.1930
29	0.0020	0.0984	0.2290	0.0966	0.3611	0.6597	0.1710	0.1257	0.1648	0.6079	0.4250	0.6597
30	0.0010	0.0899	0.0420	0.0841	0.0419	0.0627	0.0310	0.1283	0.0984	0.0444	0.1205	0.1283
31	0.0004	0.0510	0.0693	0.0868	0.1182	0.1452	0.2303	0.0884	0.1787	0.2210	0.0949	0.2303
32	0.0005	0.0391	0.0385	0.0749	0.0659	0.0951	0.0214	0.0397	0.0943	0.0627	0.0758	0.0951
33	0.0013	0.0755	0.0428	0.1790	0.0569	0.0447	0.0761	0.0947	0.1431	0.1515	0.1695	0.1790
34	0.0011	0.0208	0.0382	0.0263	0.0560	0.0259	0.0634	0.0492	0.0683	0.0251	0.1269	0.1269
35	0.0021	0.0298	0.0218	0.1389	0.0476	0.3710	0.2049	0.0847	0.1468	0.1496	0.1827	0.3710
36	0.0004	0.0532	0.0727	0.0438	0.0338	0.0854	0.0483	0.0297	0.0687	0.0631	0.0928	0.0928
37	0.0004	0.0344	0.0828	0.0744	0.0542	0.1331	0.0929	0.0813	0.0484	0.1266	0.0925	0.1331
38	0.0002	0.0168	0.0401	0.0250	0.0369	0.0134	0.0571	0.0476	0.0157	0.0353	0.0259	0.0571
39	0.0003	0.0359	0.0405	0.0229	0.0222	0.0119	0.0343	0.0337	0.0155	0.0438	0.0544	0.0544
40	0.0004	0.0170	0.0097	0.0166	0.0170	0.0208	0.0399	0.0278	0.0135	0.0531	0.0287	0.0531
41	0.0003	0.0511	0.0683	0.0882	0.1181	0.1453	0.2312	0.0875	0.1792	0.2202	0.0951	0.2312
42	0.0013	0.0387	0.0397	0.0768	0.0660	0.0945	0.0225	0.0399	0.0942	0.0645	0.0768	0.0945
43	0.0033	0.0747	0.0438	0.1807	0.0566	0.0456	0.0758	0.0953	0.1447	0.1522	0.1688	0.1807
44	0.0010	0.0200	0.0379	0.0276	0.0562	0.0275	0.0644	0.0492	0.0697	0.0271	0.1282	0.1282
45	0.0018	0.0317	0.0222	0.1385	0.0474	0.3708	0.2043	0.0838	0.1461	0.1510	0.1824	0.3708
46	0.0017	0.0532	0.0722	0.0447	0.0352	0.0851	0.0478	0.0294	0.0682	0.0638	0.0942	0.0942
47	0.0010	0.0343	0.0835	0.0763	0.0548	0.1345	0.0921	0.0815	0.0475	0.1280	0.0935	0.1345

Model: iMars XG110KTR-F												
Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
Nr. /Order	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)
48	0.0005	0.0171	0.0416	0.0264	0.0362	0.0146	0.0574	0.0495	0.0156	0.0354	0.0279	0.0574
49	0.0013	0.0371	0.0409	0.0229	0.0221	0.0135	0.0340	0.0331	0.0161	0.0456	0.0557	0.0557
50	0.0000	0.0178	0.0088	0.0175	0.0185	0.0198	0.0389	0.0286	0.0154	0.0521	0.0286	0.0521

Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
f[Hz]	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)
75	0.0737	0.0402	0.1708	0.0856	0.0720	0.0608	0.2153	0.0579	0.0528	0.1183	0.0081	0.2153
125	0.0279	0.0119	0.0254	0.0544	0.0198	0.0384	0.0342	0.0415	0.0362	0.0415	0.0030	0.0544
175	0.0169	0.0351	0.0462	0.0227	0.0154	0.0169	0.0194	0.0243	0.0625	0.0386	0.0079	0.0625
225	0.0083	0.0208	0.0262	0.0308	0.0372	0.0251	0.0241	0.0183	0.0222	0.0346	0.0183	0.0372
275	0.0126	0.0489	0.0267	0.0265	0.0309	0.0223	0.0132	0.0317	0.0360	0.0116	0.0285	0.0489
325	0.0097	0.0153	0.0213	0.0134	0.0102	0.0394	0.0105	0.0136	0.0261	0.0241	0.0066	0.0394
375	0.0218	0.0110	0.0159	0.0138	0.0328	0.0113	0.0364	0.0250	0.0310	0.0572	0.0154	0.0572
425	0.0031	0.0197	0.0068	0.0127	0.0197	0.0122	0.0203	0.0322	0.0253	0.0551	0.0077	0.0551
475	0.0058	0.0197	0.0133	0.0128	0.0311	0.0365	0.0203	0.0185	0.0451	0.0336	0.0073	0.0451
525	0.0046	0.0184	0.0412	0.0323	0.0225	0.0246	0.0234	0.0162	0.0364	0.0557	0.0086	0.0557
575	0.0112	0.0432	0.0547	0.0139	0.0340	0.0319	0.0514	0.0254	0.0717	0.0540	0.0298	0.0717
625	0.0056	0.0095	0.0398	0.0488	0.0212	0.0279	0.0212	0.0328	0.0117	0.0390	0.0065	0.0488
675	0.0103	0.0412	0.0476	0.0203	0.0165	0.0419	0.0180	0.0486	0.0421	0.0291	0.0142	0.0486
725	0.0032	0.0196	0.0222	0.0119	0.0283	0.0211	0.0128	0.0351	0.0409	0.0236	0.0075	0.0409
775	0.0029	0.0384	0.0197	0.0223	0.0149	0.0168	0.0231	0.0187	0.0190	0.0115	0.0059	0.0384
825	0.0050	0.0118	0.0482	0.0193	0.0193	0.0515	0.0151	0.0143	0.0258	0.0202	0.0064	0.0515
875	0.0012	0.0292	0.0419	0.0378	0.0128	0.0408	0.0210	0.0401	0.0379	0.0252	0.0097	0.0419
925	0.0038	0.0113	0.0202	0.0170	0.0305	0.0387	0.0203	0.0283	0.0353	0.0406	0.0108	0.0406
975	0.0029	0.0196	0.0409	0.0136	0.0250	0.0513	0.0153	0.0726	0.0560	0.0247	0.0085	0.0726
1025	0.0028	0.0375	0.0423	0.0412	0.0134	0.0165	0.0194	0.0271	0.0276	0.0736	0.0093	0.0736
1075	0.0044	0.0193	0.0296	0.0144	0.0182	0.0299	0.0561	0.0454	0.0447	0.0347	0.0051	0.0561
1125	0.0030	0.0156	0.0362	0.0327	0.0772	0.0853	0.0566	0.0205	0.1008	0.0241	0.0122	0.1008
1175	0.0012	0.0387	0.0327	0.0492	0.0635	0.0317	0.0960	0.0528	0.0707	0.0751	0.0272	0.0960
1225	0.0019	0.0531	0.0359	0.0660	0.0476	0.0578	0.0795	0.1416	0.0281	0.0675	0.0124	0.1416
1275	0.0012	0.0330	0.0507	0.0254	0.0920	0.0410	0.0326	0.1216	0.0923	0.0886	0.0071	0.1216
1325	0.0010	0.0400	0.0160	0.0556	0.0147	0.0327	0.0704	0.0313	0.0637	0.0221	0.0141	0.0704
1375	0.0009	0.0290	0.0122	0.0481	0.0315	0.0541	0.0380	0.0156	0.0277	0.0390	0.0058	0.0541
1425	0.0008	0.0118	0.0109	0.0123	0.0161	0.0137	0.0315	0.0168	0.0474	0.0225	0.0133	0.0474
1475	0.0009	0.0185	0.0137	0.0133	0.0182	0.0325	0.0301	0.0261	0.0628	0.0220	0.0230	0.0628
1525	0.0005	0.0120	0.0292	0.0217	0.0107	0.0329	0.0250	0.0166	0.0284	0.0137	0.0066	0.0329
1575	0.0007	0.0376	0.0138	0.0279	0.0281	0.0381	0.0137	0.0186	0.0172	0.0342	0.0283	0.0381
1625	0.0008	0.0203	0.0203	0.0112	0.0134	0.0130	0.0220	0.0322	0.0393	0.0372	0.0124	0.0393
1675	0.0003	0.0101	0.0151	0.0106	0.0316	0.0143	0.0283	0.0125	0.0245	0.0085	0.0077	0.0316
1725	0.0007	0.0162	0.0208	0.0129	0.0205	0.0406	0.0362	0.0242	0.0265	0.0087	0.0115	0.0406
1775	0.0003	0.0143	0.0095	0.0288	0.0159	0.0085	0.0095	0.0205	0.0190	0.0172	0.0173	0.0288
1825	0.0008	0.0111	0.0349	0.0210	0.0329	0.0108	0.0258	0.0185	0.0304	0.0327	0.0175	0.0349
1875	0.0006	0.0168	0.0258	0.0145	0.0145	0.0137	0.0188	0.0234	0.0223	0.0254	0.0082	0.0258
1925	0.0004	0.0252	0.0193	0.0100	0.0199	0.0096	0.0172	0.0249	0.0125	0.0243	0.0072	0.0252
1975	0.0006	0.0148	0.0188	0.0064	0.0103	0.0192	0.0089	0.0138	0.0049	0.0169	0.0085	0.0192

Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
f[KHZ]	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)
2.1	0.0007	0.0740	0.0397	0.0246	0.0628	0.0520	0.0870	0.0771	0.0558	0.0819	0.0907	0.0907
2.3	0.0003	0.0335	0.0293	0.0240	0.0611	0.0568	0.0586	0.0253	0.0395	0.0388	0.0385	0.0611
2.5	0.0003	0.0320	0.0240	0.0408	0.0583	0.0265	0.0364	0.0429	0.0605	0.0749	0.0676	0.0749
2.7	0.0003	0.0466	0.0372	0.0257	0.0351	0.0222	0.0185	0.0344	0.0243	0.0316	0.0339	0.0466
2.9	0.0002	0.0159	0.0282	0.0133	0.0205	0.0198	0.0218	0.0343	0.0358	0.0414	0.0360	0.0414
3.1	0.0006	0.0288	0.0398	0.0317	0.0562	0.0384	0.0507	0.0264	0.0226	0.0424	0.0543	0.0562
3.3	0.0003	0.0318	0.0253	0.0280	0.0563	0.0256	0.0397	0.0450	0.0326	0.0148	0.0451	0.0563
3.5	0.0004	0.0136	0.0240	0.0321	0.0391	0.0369	0.0389	0.0189	0.0355	0.0160	0.0178	0.0391
3.7	0.0004	0.0123	0.0262	0.0253	0.0254	0.0511	0.0453	0.0311	0.0264	0.0332	0.0236	0.0511
3.9	0.0002	0.0177	0.0339	0.0299	0.0151	0.0385	0.0305	0.0387	0.0389	0.0385	0.0339	0.0389
4.1	0.0003	0.0095	0.0130	0.0170	0.0319	0.0192	0.0289	0.0296	0.0255	0.0210	0.0173	0.0319
4.3	0.0002	0.0305	0.0281	0.0180	0.0253	0.0412	0.0398	0.0471	0.0189	0.0542	0.0375	0.0542
4.5	0.0002	0.0208	0.0192	0.0144	0.0161	0.0266	0.0295	0.0168	0.0205	0.0162	0.0363	0.0363
4.7	0.0002	0.0197	0.0288	0.0197	0.0123	0.0184	0.0202	0.0169	0.0194	0.0139	0.0222	0.0288
4.9	0.0001	0.0139	0.0355	0.0176	0.0333	0.0406	0.0202	0.0182	0.0252	0.0320	0.0355	0.0406
5.1	0.0002	0.0272	0.0307	0.0301	0.0256	0.0171	0.0374	0.0324	0.0190	0.0333	0.0278	0.0374
5.3	0.0002	0.0142	0.0188	0.0324	0.0231	0.0228	0.0316	0.0149	0.0354	0.0387	0.0173	0.0387
5.5	0.0003	0.0113	0.0154	0.0172	0.0337	0.0177	0.0212	0.0422	0.0230	0.0225	0.0415	0.0422
5.7	0.0001	0.0299	0.0366	0.0274	0.0409	0.0393	0.0211	0.0438	0.0308	0.0328	0.0362	0.0438
5.9	0.0002	0.0346	0.0606	0.0313	0.0667	0.0240	0.0680	0.0490	0.0520	0.0453	0.0292	0.0680
6.1	0.0002	0.0271	0.0447	0.0424	0.0309	0.0377	0.0282	0.0354	0.0331	0.0444	0.0753	0.0753
6.3	0.0001	0.0490	0.0402	0.0571	0.0589	0.0370	0.0660	0.0369	0.0482	0.0493	0.0704	0.0704
6.5	0.0002	0.0197	0.0320	0.0300	0.0565	0.0241	0.0490	0.0297	0.0558	0.0639	0.0454	0.0639
6.7	0.0003	0.0240	0.0285	0.0186	0.0534	0.0585	0.0523	0.0576	0.0320	0.0573	0.0632	0.0632
6.9	0.0002	0.0371	0.0409	0.0389	0.0325	0.0753	0.0772	0.0624	0.0369	0.0359	0.0385	0.0772
7.1	0.0001	0.0200	0.0318	0.0436	0.0539	0.0596	0.0623	0.0609	0.0818	0.0669	0.0866	0.0866
7.3	0.0003	0.0185	0.0125	0.0186	0.0275	0.0278	0.0448	0.0611	0.0951	0.0956	0.0575	0.0956
7.5	0.0001	0.0185	0.0094	0.0238	0.0215	0.0325	0.0392	0.0573	0.0845	0.1176	0.1816	0.1816
7.7	0.0003	0.0099	0.0153	0.0182	0.0281	0.0393	0.0336	0.0270	0.0381	0.0841	0.2109	0.2109
7.9	0.0001	0.0117	0.0095	0.0087	0.0168	0.0140	0.0373	0.0317	0.0210	0.0275	0.0489	0.0489
8.1	0.0001	0.0096	0.0196	0.0076	0.0108	0.0227	0.0256	0.0361	0.0161	0.0226	0.0447	0.0447
8.3	0.0001	0.0162	0.0084	0.0093	0.0220	0.0135	0.0140	0.0100	0.0143	0.0271	0.0271	0.0271
8.5	0.0001	0.0105	0.0124	0.0070	0.0062	0.0060	0.0163	0.0110	0.0119	0.0174	0.0175	0.0175
8.7	0.0001	0.0059	0.0116	0.0072	0.0092	0.0060	0.0116	0.0145	0.0107	0.0182	0.0214	0.0214
8.9	0.0001	0.0094	0.0072	0.0072	0.0132	0.0138	0.0083	0.0089	0.0111	0.0172	0.0151	0.0172

Model: iMars XG136KTR-L												
Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
Nr. /Order	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)
2	0.0893	0.1180	0.1319	0.1333	0.1497	0.1793	0.2200	0.2650	0.3020	0.3252	0.3408	0.3408
3	0.5094	0.4256	0.5775	0.5385	0.5030	0.5187	0.5612	0.5744	0.5799	0.5631	0.5641	0.5799
4	0.0200	0.0440	0.0807	0.0989	0.1111	0.1188	0.1275	0.1509	0.1740	0.1804	0.1888	0.1888
5	0.3138	0.2004	0.3062	0.3055	0.3191	0.3008	0.3590	0.3651	0.3750	0.3952	0.3922	0.3952
6	0.0214	0.0777	0.0180	0.0269	0.0322	0.0217	0.0432	0.0510	0.0527	0.0650	0.0830	0.0830
7	0.2549	0.0708	0.6275	0.4543	0.1717	0.0987	0.2838	0.3926	0.4382	0.4404	0.4251	0.6275
8	0.0159	0.0068	0.0239	0.0214	0.0212	0.0348	0.0785	0.0669	0.0484	0.0406	0.0505	0.0785
9	0.0998	0.0878	0.1179	0.1054	0.1176	0.1283	0.3239	0.3091	0.2906	0.2713	0.2502	0.3239
10	0.0129	0.0069	0.0132	0.0154	0.0162	0.0097	0.0482	0.0410	0.0307	0.0266	0.0413	0.0482
11	0.0157	0.1073	0.0794	0.0410	0.0335	0.0462	0.3548	0.4587	0.5208	0.5427	0.5365	0.5427
12	0.0086	0.0154	0.0111	0.0073	0.0070	0.0080	0.0252	0.0334	0.0283	0.0286	0.0304	0.0334
13	0.0244	0.0430	0.0413	0.0348	0.0169	0.0113	0.1322	0.2548	0.3342	0.3688	0.3933	0.3933
14	0.0069	0.0092	0.0089	0.0058	0.0045	0.0054	0.0683	0.0894	0.0821	0.0687	0.0734	0.0894
15	0.0194	0.0260	0.0289	0.0182	0.0275	0.0295	0.1574	0.1382	0.1289	0.1257	0.1272	0.1574
16	0.0032	0.0021	0.0072	0.0044	0.0043	0.0040	0.0320	0.0461	0.0430	0.0428	0.0623	0.0623
17	0.0045	0.0101	0.0232	0.0510	0.0116	0.0119	0.2269	0.3138	0.3723	0.4229	0.4358	0.4358
18	0.0029	0.0065	0.0064	0.0035	0.0059	0.0056	0.0520	0.0692	0.0790	0.0842	0.0786	0.0842
19	0.0062	0.0176	0.0180	0.0086	0.0199	0.0130	0.1926	0.2540	0.2811	0.3009	0.2966	0.3009
20	0.0031	0.0031	0.0082	0.0039	0.0065	0.0065	0.0409	0.0599	0.0867	0.1008	0.1184	0.1184
21	0.0110	0.0044	0.0129	0.0109	0.0133	0.0102	0.1274	0.1628	0.2087	0.2347	0.2460	0.2460
22	0.0023	0.0021	0.0059	0.0028	0.0030	0.0037	0.0477	0.0589	0.0542	0.0423	0.0530	0.0589
23	0.0083	0.0111	0.0144	0.0071	0.0253	0.0174	0.2017	0.3430	0.4768	0.5396	0.5622	0.5622
24	0.0020	0.0013	0.0081	0.0019	0.0018	0.0026	0.0424	0.0494	0.0448	0.0587	0.0723	0.0723
25	0.0036	0.0030	0.0110	0.0040	0.0055	0.0111	0.1273	0.1041	0.1226	0.1479	0.1350	0.1479
26	0.0021	0.0018	0.0054	0.0017	0.0033	0.0014	0.0842	0.0865	0.0695	0.0617	0.0708	0.0865
27	0.0041	0.0041	0.0081	0.0045	0.0060	0.0042	0.0865	0.0888	0.0757	0.0628	0.0663	0.0888
28	0.0012	0.0008	0.0051	0.0032	0.0021	0.0032	0.0447	0.0305	0.0669	0.0912	0.1105	0.1105
29	0.0028	0.0018	0.0105	0.0083	0.0078	0.0099	0.1608	0.0951	0.1707	0.2630	0.3179	0.3179
30	0.0008	0.0011	0.0054	0.0008	0.0008	0.0009	0.0245	0.0311	0.0314	0.0299	0.0366	0.0366
31	0.0007	0.0024	0.0049	0.0047	0.0039	0.0039	0.1355	0.1064	0.0892	0.1099	0.1441	0.1441
32	0.0007	0.0014	0.0045	0.0008	0.0013	0.0008	0.0350	0.0396	0.0254	0.0304	0.0424	0.0424
33	0.0018	0.0022	0.0053	0.0020	0.0022	0.0019	0.0648	0.0579	0.0650	0.0801	0.0869	0.0869
34	0.0007	0.0004	0.0044	0.0006	0.0012	0.0008	0.0240	0.0335	0.0179	0.0200	0.0375	0.0375
35	0.0021	0.0032	0.0062	0.0041	0.0041	0.0044	0.1281	0.1060	0.1122	0.1485	0.1733	0.1733
36	0.0007	0.0004	0.0048	0.0007	0.0009	0.0008	0.0251	0.0253	0.0281	0.0318	0.0298	0.0318
37	0.0006	0.0007	0.0058	0.0012	0.0021	0.0019	0.0724	0.0568	0.0473	0.0540	0.0553	0.0724
38	0.0003	0.0003	0.0043	0.0006	0.0006	0.0005	0.0126	0.0214	0.0174	0.0151	0.0196	0.0214
39	0.0003	0.0002	0.0042	0.0005	0.0003	0.0003	0.0144	0.0132	0.0138	0.0158	0.0187	0.0187
40	0.0005	0.0003	0.0043	0.0006	0.0004	0.0003	0.0192	0.0204	0.0143	0.0179	0.0260	0.0260
41	0.0026	0.0040	0.0041	0.0045	0.0046	0.0059	0.1370	0.1062	0.0905	0.1094	0.1448	0.1448
42	0.0001	0.0007	0.0061	0.0006	0.0007	0.0004	0.0342	0.0407	0.0248	0.0303	0.0439	0.0439
43	0.0026	0.0039	0.0057	0.0015	0.0030	0.0022	0.0656	0.0577	0.0667	0.0805	0.0885	0.0885
44	0.0025	0.0004	0.0058	0.0019	0.0028	0.0008	0.0248	0.0350	0.0175	0.0216	0.0376	0.0376
45	0.0020	0.0034	0.0080	0.0051	0.0045	0.0060	0.1274	0.1073	0.1137	0.1493	0.1749	0.1749
46	0.0002	0.0003	0.0045	0.0019	0.0014	0.0008	0.0268	0.0262	0.0280	0.0326	0.0307	0.0326
47	0.0008	0.0018	0.0063	0.0007	0.0036	0.0025	0.0720	0.0576	0.0465	0.0545	0.0546	0.0720

Model: iMars XG136KTR-L												
Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
Nr. /Order	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)
48	0.0008	0.0012	0.0033	0.0024	0.0002	0.0003	0.0119	0.0231	0.0185	0.0151	0.0213	0.0231
49	0.0005	0.0019	0.0038	0.0016	0.0002	0.0006	0.0163	0.0135	0.0156	0.0159	0.0183	0.0183
50	0.0003	0.0006	0.0037	0.0026	0.0005	0.0001	0.0192	0.0203	0.0156	0.0171	0.0265	0.0265

Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
f[Hz]	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)
75	0.1174	0.0852	0.1063	0.1006	0.0990	0.1017	0.1009	0.1040	0.1096	0.1088	0.0439	0.1174
125	0.0343	0.0256	0.0369	0.0314	0.0317	0.0345	0.0329	0.0354	0.0404	0.0400	0.0264	0.0404
175	0.0241	0.0221	0.0314	0.0253	0.0258	0.0281	0.0287	0.0304	0.0346	0.0343	0.0273	0.0346
225	0.0236	0.0244	0.0319	0.0244	0.0236	0.0261	0.0295	0.0317	0.0326	0.0343	0.0299	0.0343
275	0.0231	0.0259	0.0272	0.0224	0.0207	0.0227	0.0304	0.0309	0.0326	0.0326	0.0303	0.0326
325	0.0154	0.0140	0.0216	0.0160	0.0159	0.0177	0.0265	0.0277	0.0303	0.0311	0.0314	0.0314
375	0.0117	0.0118	0.0186	0.0130	0.0132	0.0144	0.0257	0.0272	0.0301	0.0306	0.0313	0.0313
425	0.0089	0.0100	0.0162	0.0103	0.0103	0.0110	0.0249	0.0259	0.0288	0.0298	0.0299	0.0299
475	0.0078	0.0081	0.0146	0.0088	0.0089	0.0094	0.0262	0.0270	0.0293	0.0299	0.0309	0.0309
525	0.0090	0.0082	0.0157	0.0098	0.0098	0.0107	0.0363	0.0378	0.0394	0.0418	0.0432	0.0432
575	0.0085	0.0076	0.0153	0.0091	0.0091	0.0098	0.0377	0.0398	0.0419	0.0423	0.0452	0.0452
625	0.0071	0.0065	0.0136	0.0072	0.0073	0.0077	0.0350	0.0368	0.0379	0.0385	0.0402	0.0402
675	0.0059	0.0059	0.0124	0.0061	0.0061	0.0066	0.0352	0.0361	0.0371	0.0386	0.0401	0.0401
725	0.0036	0.0036	0.0102	0.0042	0.0044	0.0046	0.0284	0.0293	0.0314	0.0321	0.0342	0.0342
775	0.0032	0.0032	0.0097	0.0038	0.0039	0.0041	0.0288	0.0297	0.0320	0.0332	0.0349	0.0349
825	0.0029	0.0030	0.0094	0.0035	0.0037	0.0039	0.0307	0.0314	0.0339	0.0347	0.0379	0.0379
875	0.0027	0.0028	0.0091	0.0033	0.0034	0.0036	0.0315	0.0324	0.0353	0.0359	0.0393	0.0393
925	0.0026	0.0025	0.0088	0.0030	0.0032	0.0033	0.0335	0.0338	0.0369	0.0371	0.0406	0.0406
975	0.0023	0.0024	0.0086	0.0029	0.0030	0.0031	0.0342	0.0348	0.0376	0.0388	0.0430	0.0430
1025	0.0021	0.0019	0.0084	0.0026	0.0027	0.0028	0.0349	0.0367	0.0391	0.0418	0.0456	0.0456
1075	0.0021	0.0018	0.0083	0.0026	0.0027	0.0029	0.0387	0.0413	0.0449	0.0487	0.0543	0.0543
1125	0.0036	0.0025	0.0100	0.0043	0.0041	0.0044	0.0680	0.0715	0.0756	0.0826	0.0895	0.0895
1175	0.0035	0.0024	0.0099	0.0043	0.0041	0.0044	0.0728	0.0780	0.0857	0.0944	0.1039	0.1039
1225	0.0026	0.0018	0.0086	0.0030	0.0028	0.0032	0.0604	0.0664	0.0744	0.0852	0.0984	0.0984
1275	0.0022	0.0015	0.0082	0.0026	0.0026	0.0029	0.0583	0.0655	0.0740	0.0844	0.0978	0.0978
1325	0.0013	0.0014	0.0074	0.0016	0.0017	0.0019	0.0386	0.0418	0.0476	0.0569	0.0720	0.0720
1375	0.0011	0.0012	0.0072	0.0014	0.0015	0.0016	0.0359	0.0389	0.0448	0.0527	0.0659	0.0659
1425	0.0010	0.0010	0.0071	0.0012	0.0013	0.0014	0.0336	0.0355	0.0403	0.0471	0.0579	0.0579
1475	0.0008	0.0009	0.0069	0.0011	0.0011	0.0012	0.0309	0.0320	0.0363	0.0420	0.0517	0.0517
1525	0.0008	0.0008	0.0068	0.0009	0.0010	0.0011	0.0289	0.0303	0.0343	0.0383	0.0452	0.0452
1575	0.0007	0.0007	0.0067	0.0008	0.0009	0.0009	0.0260	0.0275	0.0311	0.0338	0.0398	0.0398
1625	0.0006	0.0006	0.0066	0.0007	0.0008	0.0008	0.0228	0.0239	0.0266	0.0299	0.0349	0.0349
1675	0.0006	0.0006	0.0066	0.0006	0.0007	0.0007	0.0219	0.0222	0.0244	0.0275	0.0318	0.0318
1725	0.0006	0.0007	0.0066	0.0007	0.0007	0.0008	0.0256	0.0263	0.0277	0.0306	0.0339	0.0339
1775	0.0006	0.0006	0.0066	0.0007	0.0007	0.0007	0.0255	0.0266	0.0279	0.0300	0.0327	0.0327
1825	0.0005	0.0006	0.0066	0.0006	0.0006	0.0006	0.0224	0.0229	0.0244	0.0256	0.0284	0.0284
1875	0.0004	0.0005	0.0065	0.0005	0.0005	0.0005	0.0196	0.0201	0.0212	0.0228	0.0257	0.0257
1925	0.0003	0.0003	0.0063	0.0003	0.0004	0.0004	0.0143	0.0146	0.0158	0.0169	0.0193	0.0193
1975	0.0003	0.0003	0.0063	0.0003	0.0003	0.0003	0.0131	0.0133	0.0141	0.0153	0.0173	0.0173

Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
f[KHZ]	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)
2.1	0.0008	0.0009	0.0151	0.0010	0.0011	0.0011	0.0671	0.0606	0.0581	0.0711	0.0804	0.0804
2.3	0.0005	0.0006	0.0150	0.0006	0.0008	0.0008	0.0449	0.0449	0.0395	0.0442	0.0498	0.0498
2.5	0.0006	0.0006	0.0148	0.0005	0.0006	0.0006	0.0391	0.0442	0.0514	0.0632	0.0737	0.0737
2.7	0.0004	0.0005	0.0146	0.0004	0.0005	0.0004	0.0299	0.0381	0.0488	0.0616	0.0733	0.0733
2.9	0.0004	0.0003	0.0147	0.0004	0.0004	0.0004	0.0286	0.0288	0.0336	0.0368	0.0390	0.0390
3.1	0.0003	0.0002	0.0146	0.0004	0.0005	0.0003	0.0261	0.0259	0.0287	0.0326	0.0359	0.0359
3.3	0.0004	0.0003	0.0145	0.0004	0.0005	0.0004	0.0349	0.0321	0.0328	0.0343	0.0347	0.0349
3.5	0.0003	0.0002	0.0144	0.0002	0.0003	0.0003	0.0208	0.0210	0.0225	0.0257	0.0295	0.0295
3.7	0.0003	0.0002	0.0145	0.0003	0.0003	0.0003	0.0350	0.0298	0.0290	0.0330	0.0350	0.0350
3.9	0.0003	0.0002	0.0144	0.0003	0.0003	0.0003	0.0383	0.0354	0.0327	0.0335	0.0331	0.0383
4.1	0.0002	0.0001	0.0144	0.0002	0.0003	0.0002	0.0212	0.0220	0.0219	0.0245	0.0283	0.0283
4.3	0.0002	0.0001	0.0144	0.0002	0.0003	0.0002	0.0279	0.0291	0.0265	0.0291	0.0304	0.0304
4.5	0.0002	0.0001	0.0144	0.0002	0.0002	0.0002	0.0248	0.0258	0.0260	0.0297	0.0310	0.0310
4.7	0.0002	0.0001	0.0144	0.0002	0.0002	0.0002	0.0220	0.0220	0.0240	0.0273	0.0311	0.0311
4.9	0.0002	0.0001	0.0144	0.0002	0.0002	0.0002	0.0243	0.0248	0.0256	0.0284	0.0306	0.0306
5.1	0.0002	0.0001	0.0144	0.0002	0.0002	0.0002	0.0225	0.0258	0.0283	0.0299	0.0308	0.0308
5.3	0.0002	0.0001	0.0144	0.0002	0.0002	0.0002	0.0219	0.0235	0.0239	0.0240	0.0255	0.0255
5.5	0.0002	0.0001	0.0144	0.0002	0.0002	0.0002	0.0267	0.0290	0.0325	0.0370	0.0380	0.0380
5.7	0.0002	0.0001	0.0144	0.0002	0.0002	0.0002	0.0386	0.0380	0.0377	0.0383	0.0381	0.0386
5.9	0.0002	0.0001	0.0144	0.0002	0.0002	0.0002	0.0468	0.0472	0.0471	0.0478	0.0475	0.0478
6.1	0.0002	0.0001	0.0143	0.0001	0.0002	0.0002	0.0362	0.0381	0.0400	0.0407	0.0399	0.0407
6.3	0.0002	0.0001	0.0143	0.0002	0.0002	0.0002	0.0482	0.0476	0.0471	0.0488	0.0453	0.0488
6.5	0.0002	0.0001	0.0143	0.0002	0.0002	0.0001	0.0374	0.0359	0.0371	0.0402	0.0427	0.0427
6.7	0.0001	0.0001	0.0143	0.0001	0.0002	0.0001	0.0409	0.0446	0.0467	0.0510	0.0520	0.0520
6.9	0.0001	0.0001	0.0143	0.0001	0.0002	0.0001	0.0488	0.0472	0.0475	0.0504	0.0548	0.0548
7.1	0.0001	0.0001	0.0143	0.0001	0.0002	0.0001	0.0568	0.0543	0.0531	0.0578	0.0622	0.0622
7.3	0.0001	0.0001	0.0143	0.0001	0.0002	0.0001	0.0521	0.0590	0.0694	0.0720	0.0660	0.0720
7.5	0.0001	0.0001	0.0143	0.0001	0.0002	0.0001	0.0499	0.0780	0.1373	0.1257	0.0792	0.1373
7.7	0.0001	0.0001	0.0143	0.0001	0.0002	0.0001	0.0464	0.0731	0.1293	0.1306	0.0947	0.1306
7.9	0.0001	0.0001	0.0143	0.0001	0.0002	0.0001	0.0291	0.0360	0.0437	0.0512	0.0518	0.0518
8.1	0.0001	0.0001	0.0143	0.0001	0.0002	0.0001	0.0216	0.0224	0.0250	0.0339	0.0440	0.0440
8.3	0.0001	0.0001	0.0143	0.0001	0.0001	0.0001	0.0158	0.0169	0.0198	0.0258	0.0333	0.0333
8.5	0.0001	0.0001	0.0143	0.0001	0.0001	0.0001	0.0126	0.0140	0.0149	0.0186	0.0213	0.0213
8.7	0.0001	0.0001	0.0143	0.0001	0.0001	0.0001	0.0109	0.0127	0.0139	0.0175	0.0216	0.0216
8.9	0.0001	0.0001	0.0124	0.0001	0.0001	0.0001	0.0109	0.0140	0.0149	0.0186	0.0213	0.0213

Model: iMars XG136KTR-LF												
Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
Nr. /Order	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)
2	0.0680	0.1188	0.1295	0.1358	0.1515	0.1799	0.2272	0.2640	0.2964	0.3221	0.3351	0.3351
3	0.5052	0.4276	0.5767	0.5279	0.5061	0.5217	0.5636	0.5687	0.5716	0.5701	0.5643	0.5767
4	0.0139	0.0415	0.0753	0.0992	0.1127	0.1172	0.1275	0.1528	0.1771	0.1838	0.1866	0.1866
5	0.3115	0.2011	0.3028	0.3042	0.3204	0.3032	0.3590	0.3639	0.3766	0.3941	0.3913	0.3941
6	0.0173	0.0745	0.0139	0.0272	0.0313	0.0212	0.0439	0.0510	0.0545	0.0661	0.0814	0.0814
7	0.2541	0.0705	0.6270	0.4602	0.1700	0.0958	0.2782	0.3872	0.4324	0.4407	0.4202	0.6270
8	0.0161	0.0068	0.0205	0.0218	0.0211	0.0337	0.0811	0.0670	0.0474	0.0403	0.0501	0.0811
9	0.0986	0.0878	0.1142	0.1053	0.1177	0.1295	0.3243	0.3095	0.2903	0.2683	0.2507	0.3243
10	0.0103	0.0077	0.0091	0.0159	0.0162	0.0094	0.0498	0.0407	0.0297	0.0266	0.0387	0.0498
11	0.0155	0.1076	0.0754	0.0423	0.0326	0.0466	0.3602	0.4575	0.5176	0.5406	0.5342	0.5406
12	0.0062	0.0162	0.0075	0.0072	0.0071	0.0084	0.0252	0.0332	0.0282	0.0294	0.0301	0.0332
13	0.0241	0.0437	0.0378	0.0355	0.0171	0.0120	0.1385	0.2522	0.3314	0.3652	0.3897	0.3897
14	0.0059	0.0093	0.0051	0.0061	0.0045	0.0054	0.0688	0.0890	0.0826	0.0691	0.0703	0.0890
15	0.0200	0.0261	0.0248	0.0180	0.0273	0.0296	0.1570	0.1384	0.1280	0.1249	0.1271	0.1570
16	0.0034	0.0019	0.0033	0.0044	0.0043	0.0039	0.0325	0.0459	0.0432	0.0430	0.0606	0.0606
17	0.0050	0.0102	0.0191	0.0515	0.0116	0.0117	0.2261	0.3147	0.3723	0.4206	0.4371	0.4371
18	0.0025	0.0062	0.0025	0.0036	0.0059	0.0058	0.0522	0.0691	0.0787	0.0843	0.0772	0.0843
19	0.0061	0.0182	0.0142	0.0089	0.0198	0.0134	0.1893	0.2578	0.2826	0.2999	0.2956	0.2999
20	0.0036	0.0028	0.0042	0.0037	0.0064	0.0065	0.0400	0.0601	0.0871	0.0995	0.1160	0.1160
21	0.0110	0.0046	0.0088	0.0108	0.0132	0.0100	0.1265	0.1630	0.2076	0.2342	0.2458	0.2458
22	0.0021	0.0023	0.0020	0.0027	0.0029	0.0035	0.0478	0.0591	0.0547	0.0412	0.0511	0.0591
23	0.0080	0.0109	0.0105	0.0071	0.0251	0.0176	0.2116	0.3347	0.4692	0.5272	0.5515	0.5515
24	0.0019	0.0013	0.0043	0.0018	0.0018	0.0025	0.0432	0.0491	0.0447	0.0603	0.0708	0.0708
25	0.0035	0.0031	0.0071	0.0040	0.0057	0.0109	0.1203	0.1048	0.1312	0.1570	0.1385	0.1570
26	0.0016	0.0018	0.0014	0.0017	0.0032	0.0014	0.0841	0.0852	0.0700	0.0627	0.0716	0.0852
27	0.0038	0.0040	0.0041	0.0046	0.0060	0.0044	0.0863	0.0891	0.0762	0.0648	0.0678	0.0891
28	0.0011	0.0008	0.0011	0.0034	0.0021	0.0033	0.0449	0.0308	0.0682	0.0911	0.1062	0.1062
29	0.0029	0.0017	0.0066	0.0082	0.0078	0.0099	0.1605	0.0938	0.1701	0.2584	0.3156	0.3156
30	0.0007	0.0011	0.0014	0.0009	0.0007	0.0009	0.0246	0.0318	0.0312	0.0305	0.0356	0.0356
31	0.0006	0.0024	0.0010	0.0048	0.0038	0.0039	0.1372	0.1066	0.0889	0.1084	0.1429	0.1429
32	0.0005	0.0015	0.0005	0.0009	0.0012	0.0008	0.0358	0.0396	0.0251	0.0305	0.0421	0.0421
33	0.0018	0.0022	0.0013	0.0021	0.0022	0.0018	0.0651	0.0580	0.0643	0.0801	0.0886	0.0886
34	0.0007	0.0004	0.0005	0.0006	0.0012	0.0008	0.0242	0.0339	0.0177	0.0202	0.0380	0.0380
35	0.0020	0.0032	0.0022	0.0041	0.0041	0.0044	0.1280	0.1052	0.1135	0.1525	0.1753	0.1753
36	0.0006	0.0004	0.0008	0.0008	0.0009	0.0008	0.0248	0.0250	0.0279	0.0315	0.0293	0.0315
37	0.0006	0.0007	0.0018	0.0013	0.0021	0.0019	0.0729	0.0557	0.0480	0.0571	0.0581	0.0729
38	0.0003	0.0003	0.0004	0.0006	0.0006	0.0005	0.0129	0.0222	0.0166	0.0146	0.0196	0.0222
39	0.0003	0.0002	0.0003	0.0005	0.0003	0.0003	0.0144	0.0137	0.0146	0.0166	0.0204	0.0204
40	0.0005	0.0003	0.0003	0.0006	0.0004	0.0003	0.0193	0.0211	0.0143	0.0181	0.0244	0.0244
41	0.0004	0.0034	0.0016	0.0059	0.0053	0.0038	0.1385	0.1075	0.0888	0.1076	0.1442	0.1442
42	0.0014	0.0016	0.0002	0.0013	0.0009	0.0015	0.0371	0.0387	0.0246	0.0309	0.0413	0.0413
43	0.0017	0.0025	0.0006	0.0015	0.0013	0.0034	0.0667	0.0578	0.0654	0.0812	0.0881	0.0881
44	0.0003	0.0013	0.0006	0.0018	0.0005	0.0002	0.0255	0.0343	0.0191	0.0221	0.0370	0.0370
45	0.0016	0.0024	0.0021	0.0035	0.0033	0.0049	0.1273	0.1061	0.1127	0.1522	0.1745	0.1745
46	0.0001	0.0005	0.0024	0.0001	0.0016	0.0014	0.0254	0.0265	0.0291	0.0312	0.0289	0.0312
47	0.0005	0.0003	0.0010	0.0014	0.0014	0.0030	0.0733	0.0559	0.0483	0.0567	0.0587	0.0733

Model: iMars XG136KTR-LF												
Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
Nr. /Order	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)
48	0.0016	0.0001	0.0015	0.0016	0.0020	0.0021	0.0136	0.0215	0.0182	0.0154	0.0209	0.0215
49	0.0001	0.0002	0.0020	0.0005	0.0004	0.0001	0.0137	0.0142	0.0159	0.0181	0.0197	0.0197
50	0.0017	0.0014	0.0010	0.0007	0.0001	0.0001	0.0190	0.0207	0.0151	0.0174	0.0239	0.0239

Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
f[Hz]	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)
75	0.1176	0.0857	0.1004	0.1003	0.0992	0.1025	0.1005	0.1045	0.1094	0.1095	0.0409	0.1176
125	0.0312	0.0246	0.0315	0.0315	0.0318	0.0347	0.0329	0.0352	0.0404	0.0408	0.0261	0.0408
175	0.0234	0.0212	0.0257	0.0256	0.0256	0.0282	0.0284	0.0307	0.0339	0.0347	0.0275	0.0347
225	0.0235	0.0259	0.0259	0.0251	0.0234	0.0253	0.0291	0.0304	0.0328	0.0339	0.0303	0.0339
275	0.0228	0.0210	0.0220	0.0230	0.0209	0.0219	0.0292	0.0305	0.0328	0.0325	0.0310	0.0328
325	0.0149	0.0163	0.0153	0.0162	0.0160	0.0172	0.0261	0.0276	0.0302	0.0316	0.0312	0.0316
375	0.0114	0.0132	0.0125	0.0129	0.0135	0.0144	0.0259	0.0270	0.0299	0.0309	0.0316	0.0316
425	0.0090	0.0089	0.0101	0.0104	0.0104	0.0112	0.0252	0.0264	0.0288	0.0297	0.0298	0.0298
475	0.0077	0.0077	0.0087	0.0088	0.0090	0.0095	0.0260	0.0273	0.0292	0.0300	0.0310	0.0310
525	0.0091	0.0083	0.0099	0.0097	0.0100	0.0105	0.0357	0.0376	0.0398	0.0415	0.0427	0.0427
575	0.0084	0.0078	0.0093	0.0091	0.0092	0.0097	0.0377	0.0396	0.0418	0.0425	0.0455	0.0455
625	0.0071	0.0076	0.0076	0.0073	0.0071	0.0076	0.0348	0.0363	0.0377	0.0381	0.0406	0.0406
675	0.0059	0.0060	0.0063	0.0061	0.0061	0.0065	0.0348	0.0359	0.0373	0.0386	0.0406	0.0406
725	0.0036	0.0041	0.0042	0.0043	0.0044	0.0047	0.0282	0.0297	0.0312	0.0323	0.0341	0.0341
775	0.0031	0.0032	0.0037	0.0038	0.0039	0.0041	0.0285	0.0301	0.0323	0.0329	0.0349	0.0349
825	0.0029	0.0032	0.0033	0.0036	0.0037	0.0039	0.0302	0.0309	0.0340	0.0353	0.0376	0.0376
875	0.0026	0.0027	0.0031	0.0033	0.0034	0.0036	0.0313	0.0327	0.0351	0.0367	0.0395	0.0395
925	0.0025	0.0025	0.0027	0.0031	0.0032	0.0032	0.0329	0.0332	0.0366	0.0370	0.0402	0.0402
975	0.0023	0.0023	0.0026	0.0028	0.0029	0.0031	0.0340	0.0348	0.0378	0.0388	0.0421	0.0421
1025	0.0021	0.0018	0.0023	0.0026	0.0026	0.0028	0.0342	0.0363	0.0389	0.0414	0.0461	0.0461
1075	0.0021	0.0018	0.0023	0.0027	0.0027	0.0028	0.0385	0.0410	0.0446	0.0488	0.0547	0.0547
1125	0.0036	0.0025	0.0040	0.0043	0.0042	0.0044	0.0677	0.0707	0.0778	0.0827	0.0911	0.0911
1175	0.0034	0.0024	0.0038	0.0043	0.0041	0.0043	0.0731	0.0775	0.0850	0.0949	0.1036	0.1036
1225	0.0026	0.0018	0.0025	0.0031	0.0029	0.0031	0.0601	0.0660	0.0738	0.0842	0.0973	0.0973
1275	0.0022	0.0016	0.0022	0.0027	0.0026	0.0028	0.0575	0.0647	0.0736	0.0828	0.0974	0.0974
1325	0.0013	0.0014	0.0014	0.0016	0.0017	0.0018	0.0384	0.0413	0.0488	0.0570	0.0710	0.0710
1375	0.0011	0.0013	0.0012	0.0014	0.0015	0.0016	0.0355	0.0380	0.0439	0.0522	0.0648	0.0648
1425	0.0009	0.0010	0.0010	0.0013	0.0013	0.0014	0.0338	0.0353	0.0398	0.0469	0.0582	0.0582
1475	0.0008	0.0009	0.0009	0.0011	0.0011	0.0012	0.0307	0.0319	0.0366	0.0424	0.0513	0.0513
1525	0.0007	0.0008	0.0008	0.0009	0.0010	0.0011	0.0281	0.0304	0.0341	0.0379	0.0452	0.0452
1575	0.0007	0.0007	0.0007	0.0008	0.0009	0.0009	0.0255	0.0273	0.0305	0.0337	0.0403	0.0403
1625	0.0006	0.0006	0.0006	0.0007	0.0007	0.0008	0.0228	0.0242	0.0270	0.0295	0.0348	0.0348
1675	0.0005	0.0006	0.0006	0.0006	0.0007	0.0007	0.0216	0.0224	0.0247	0.0272	0.0314	0.0314
1725	0.0006	0.0006	0.0006	0.0007	0.0007	0.0008	0.0253	0.0264	0.0279	0.0306	0.0337	0.0337
1775	0.0006	0.0007	0.0006	0.0007	0.0007	0.0007	0.0251	0.0259	0.0279	0.0298	0.0332	0.0332
1825	0.0005	0.0006	0.0005	0.0006	0.0006	0.0006	0.0220	0.0228	0.0242	0.0255	0.0288	0.0288
1875	0.0004	0.0005	0.0004	0.0005	0.0005	0.0005	0.0197	0.0200	0.0209	0.0229	0.0256	0.0256
1925	0.0003	0.0003	0.0003	0.0004	0.0004	0.0004	0.0144	0.0148	0.0158	0.0169	0.0194	0.0194
1975	0.0003	0.0003	0.0003	0.0003	0.0003	0.0004	0.0132	0.0135	0.0142	0.0155	0.0177	0.0177

Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
f[KHZ]	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)
2.1	0.0007	0.0009	0.0009	0.0011	0.0011	0.0011	0.0670	0.0603	0.0582	0.0715	0.0808	0.0808
2.3	0.0005	0.0006	0.0007	0.0007	0.0008	0.0008	0.0450	0.0448	0.0397	0.0442	0.0500	0.0500
2.5	0.0005	0.0006	0.0006	0.0006	0.0006	0.0006	0.0387	0.0442	0.0515	0.0639	0.0737	0.0737
2.7	0.0004	0.0005	0.0004	0.0005	0.0004	0.0004	0.0295	0.0381	0.0490	0.0622	0.0741	0.0741
2.9	0.0004	0.0003	0.0004	0.0004	0.0004	0.0004	0.0286	0.0288	0.0337	0.0366	0.0394	0.0394
3.1	0.0003	0.0002	0.0003	0.0005	0.0004	0.0003	0.0262	0.0259	0.0289	0.0324	0.0359	0.0359
3.3	0.0003	0.0003	0.0003	0.0004	0.0005	0.0004	0.0349	0.0322	0.0329	0.0343	0.0348	0.0349
3.5	0.0002	0.0002	0.0002	0.0003	0.0003	0.0003	0.0209	0.0208	0.0226	0.0264	0.0301	0.0301
3.7	0.0002	0.0002	0.0002	0.0003	0.0003	0.0003	0.0350	0.0297	0.0292	0.0334	0.0352	0.0352
3.9	0.0002	0.0002	0.0002	0.0003	0.0003	0.0003	0.0383	0.0356	0.0329	0.0337	0.0331	0.0383
4.1	0.0002	0.0001	0.0002	0.0003	0.0002	0.0002	0.0213	0.0222	0.0220	0.0240	0.0280	0.0280
4.3	0.0002	0.0001	0.0002	0.0002	0.0002	0.0002	0.0280	0.0292	0.0266	0.0291	0.0299	0.0299
4.5	0.0002	0.0001	0.0001	0.0002	0.0002	0.0002	0.0250	0.0258	0.0260	0.0296	0.0312	0.0312
4.7	0.0002	0.0001	0.0001	0.0002	0.0002	0.0002	0.0220	0.0222	0.0242	0.0273	0.0311	0.0311
4.9	0.0002	0.0001	0.0002	0.0002	0.0002	0.0002	0.0242	0.0248	0.0257	0.0282	0.0307	0.0307
5.1	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002	0.0223	0.0258	0.0281	0.0300	0.0314	0.0314
5.3	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002	0.0219	0.0235	0.0236	0.0241	0.0254	0.0254
5.5	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002	0.0264	0.0289	0.0326	0.0373	0.0385	0.0385
5.7	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002	0.0386	0.0380	0.0377	0.0385	0.0386	0.0386
5.9	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002	0.0470	0.0474	0.0469	0.0479	0.0468	0.0479
6.1	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002	0.0361	0.0380	0.0400	0.0408	0.0400	0.0408
6.3	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002	0.0483	0.0476	0.0473	0.0489	0.0454	0.0489
6.5	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002	0.0379	0.0359	0.0378	0.0403	0.0428	0.0428
6.7	0.0001	0.0001	0.0001	0.0002	0.0002	0.0001	0.0410	0.0444	0.0471	0.0511	0.0524	0.0524
6.9	0.0001	0.0001	0.0001	0.0002	0.0002	0.0001	0.0499	0.0474	0.0480	0.0504	0.0547	0.0547
7.1	0.0001	0.0001	0.0001	0.0002	0.0002	0.0001	0.0573	0.0545	0.0537	0.0574	0.0620	0.0620
7.3	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0521	0.0588	0.0696	0.0716	0.0658	0.0716
7.5	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0505	0.0782	0.1372	0.1237	0.0777	0.1372
7.7	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0470	0.0732	0.1293	0.1288	0.0928	0.1293
7.9	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0290	0.0359	0.0440	0.0511	0.0517	0.0517
8.1	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0220	0.0224	0.0254	0.0339	0.0440	0.0440
8.3	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0160	0.0169	0.0200	0.0261	0.0340	0.0340
8.5	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0126	0.0141	0.0154	0.0186	0.0217	0.0217
8.7	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0111	0.0125	0.0143	0.0174	0.0219	0.0219
8.9	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0126	0.0141	0.0154	0.0186	0.0217	0.0217

Model: iMars XG136KTR-X												
Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
Nr. /Order	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)
2	0.0734	0.1146	0.1236	0.1476	0.1650	0.1669	0.2067	0.2471	0.2817	0.3203	0.3494	0.3494
3	0.6340	0.6518	0.7365	0.7100	0.6782	0.6735	0.6822	0.7021	0.7190	0.7226	0.7128	0.7365
4	0.0524	0.0454	0.0680	0.0937	0.0842	0.1155	0.1239	0.1229	0.1403	0.1635	0.1745	0.1745
5	0.3622	0.3068	0.2861	0.2964	0.3024	0.3092	0.3123	0.2959	0.2859	0.2888	0.2991	0.3622
6	0.0829	0.0941	0.0295	0.0390	0.0389	0.0320	0.0339	0.0509	0.0546	0.0593	0.0650	0.0941
7	0.2880	0.5005	0.8001	0.6729	0.4372	0.2059	0.1050	0.1469	0.1970	0.2228	0.2449	0.8001
8	0.0330	0.0623	0.0211	0.0162	0.0244	0.0244	0.0361	0.0486	0.0495	0.0430	0.0404	0.0623
9	0.2741	0.1607	0.1275	0.1219	0.1217	0.1368	0.1517	0.1596	0.1548	0.1486	0.1439	0.2741
10	0.0386	0.0567	0.0125	0.0067	0.0072	0.0116	0.0168	0.0188	0.0235	0.0194	0.0162	0.0567
11	0.1715	0.2782	0.0604	0.0500	0.1199	0.0594	0.0286	0.0861	0.1197	0.1421	0.1577	0.2782
12	0.0309	0.0965	0.0113	0.0129	0.0120	0.0073	0.0084	0.0077	0.0085	0.0104	0.0113	0.0965
13	0.0802	0.4607	0.0515	0.0623	0.0342	0.0236	0.0141	0.0255	0.0473	0.0670	0.0796	0.4607
14	0.0307	0.0267	0.0069	0.0075	0.0043	0.0092	0.0058	0.0101	0.0141	0.0148	0.0147	0.0307
15	0.1430	0.1439	0.0264	0.0176	0.0287	0.0392	0.0361	0.0315	0.0299	0.0265	0.0258	0.1439
16	0.0219	0.0260	0.0044	0.0036	0.0036	0.0039	0.0041	0.0047	0.0073	0.0079	0.0083	0.0260
17	0.0478	0.2077	0.0214	0.0582	0.0502	0.0093	0.0175	0.0282	0.0355	0.0419	0.0520	0.2077
18	0.0247	0.0674	0.0031	0.0040	0.0049	0.0040	0.0050	0.0035	0.0040	0.0054	0.0077	0.0674
19	0.0597	0.1114	0.0217	0.0048	0.0263	0.0165	0.0174	0.0195	0.0233	0.0270	0.0290	0.1114
20	0.0352	0.0463	0.0064	0.0063	0.0067	0.0090	0.0086	0.0063	0.0060	0.0076	0.0104	0.0463
21	0.2116	0.2033	0.0174	0.0155	0.0219	0.0214	0.0185	0.0167	0.0202	0.0250	0.0300	0.2116
22	0.0409	0.0329	0.0023	0.0024	0.0027	0.0026	0.0058	0.0043	0.0049	0.0043	0.0035	0.0409
23	0.0951	0.2304	0.0094	0.0070	0.0171	0.0289	0.0142	0.0103	0.0202	0.0307	0.0394	0.2304
24	0.0552	0.0761	0.0046	0.0062	0.0035	0.0062	0.0057	0.0054	0.0056	0.0064	0.0071	0.0761
25	0.1307	0.1207	0.0095	0.0123	0.0086	0.0155	0.0149	0.0078	0.0070	0.0100	0.0112	0.1307
26	0.0490	0.0841	0.0031	0.0040	0.0056	0.0047	0.0063	0.0032	0.0033	0.0058	0.0087	0.0841
27	0.0688	0.0564	0.0037	0.0019	0.0057	0.0063	0.0039	0.0053	0.0050	0.0048	0.0051	0.0688
28	0.0395	0.0317	0.0017	0.0014	0.0015	0.0018	0.0026	0.0021	0.0028	0.0020	0.0023	0.0395
29	0.0643	0.0456	0.0060	0.0118	0.0021	0.0095	0.0129	0.0069	0.0029	0.0063	0.0115	0.0643
30	0.0199	0.0451	0.0018	0.0013	0.0017	0.0010	0.0010	0.0011	0.0011	0.0014	0.0017	0.0451
31	0.0331	0.1045	0.0026	0.0049	0.0048	0.0045	0.0061	0.0059	0.0044	0.0040	0.0054	0.1045
32	0.0179	0.0240	0.0016	0.0020	0.0014	0.0014	0.0022	0.0008	0.0013	0.0008	0.0018	0.0240
33	0.0426	0.0206	0.0013	0.0017	0.0023	0.0018	0.0027	0.0023	0.0017	0.0018	0.0028	0.0426
34	0.0240	0.0399	0.0005	0.0006	0.0006	0.0012	0.0007	0.0007	0.0009	0.0011	0.0008	0.0399
35	0.0571	0.0878	0.0019	0.0022	0.0048	0.0038	0.0047	0.0046	0.0033	0.0030	0.0043	0.0878
36	0.0197	0.0286	0.0005	0.0005	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0008	0.0286
37	0.0447	0.0346	0.0022	0.0013	0.0032	0.0026	0.0021	0.0025	0.0019	0.0014	0.0015	0.0447
38	0.0122	0.0197	0.0003	0.0004	0.0008	0.0009	0.0007	0.0005	0.0006	0.0004	0.0005	0.0197
39	0.0117	0.0140	0.0003	0.0003	0.0003	0.0004	0.0003	0.0004	0.0004	0.0004	0.0004	0.0140
40	0.0163	0.0220	0.0004	0.0005	0.0005	0.0005	0.0005	0.0004	0.0007	0.0006	0.0006	0.0220
41	0.0331	0.1035	0.0024	0.0058	0.0048	0.0053	0.0070	0.0063	0.0059	0.0050	0.0048	0.1035
42	0.0169	0.0257	0.0010	0.0038	0.0028	0.0026	0.0026	0.0006	0.0004	0.0001	0.0023	0.0257
43	0.0443	0.0220	0.0012	0.0018	0.0020	0.0027	0.0026	0.0018	0.0036	0.0032	0.0022	0.0443
44	0.0242	0.0402	0.0007	0.0008	0.0018	0.0019	0.0001	0.0009	0.0016	0.0007	0.0021	0.0402
45	0.0577	0.0883	0.0015	0.0023	0.0058	0.0047	0.0048	0.0063	0.0045	0.0039	0.0044	0.0883
46	0.0205	0.0301	0.0006	0.0002	0.0022	0.0010	0.0008	0.0021	0.0002	0.0018	0.0025	0.0301
47	0.0452	0.0353	0.0039	0.0022	0.0045	0.0035	0.0020	0.0041	0.0030	0.0033	0.0020	0.0452

Model: iMars XG136KTR-X												
Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
Nr. /Order	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)
48	0.0132	0.0195	0.0012	0.0019	0.0022	0.0013	0.0008	0.0003	0.0022	0.0015	0.0017	0.0195
49	0.0134	0.0131	0.0004	0.0023	0.0005	0.0022	0.0010	0.0005	0.0002	0.0019	0.0012	0.0134
50	0.0155	0.0229	0.0002	0.0002	0.0024	0.0002	0.0020	0.0012	0.0020	0.0021	0.0022	0.0229

Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
f[Hz]	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)
75	0.1144	0.1178	0.1007	0.1065	0.1026	0.1004	0.1035	0.1016	0.1115	0.1130	0.0542	0.1178
125	0.0338	0.0364	0.0336	0.0365	0.0347	0.0340	0.0359	0.0363	0.0424	0.0426	0.0282	0.0426
175	0.0290	0.0307	0.0284	0.0307	0.0299	0.0295	0.0319	0.0313	0.0355	0.0353	0.0281	0.0355
225	0.0635	0.0362	0.0272	0.0278	0.0276	0.0257	0.0282	0.0294	0.0316	0.0326	0.0272	0.0635
275	0.0745	0.0356	0.0256	0.0252	0.0249	0.0243	0.0251	0.0259	0.0275	0.0277	0.0249	0.0745
325	0.0638	0.0552	0.0193	0.0195	0.0199	0.0193	0.0202	0.0203	0.0219	0.0222	0.0211	0.0638
375	0.0613	0.0553	0.0156	0.0156	0.0162	0.0156	0.0165	0.0167	0.0178	0.0187	0.0177	0.0613
425	0.0289	0.0279	0.0127	0.0130	0.0127	0.0127	0.0135	0.0136	0.0141	0.0149	0.0142	0.0289
475	0.0289	0.0284	0.0107	0.0109	0.0108	0.0111	0.0114	0.0116	0.0122	0.0128	0.0124	0.0289
525	0.0484	0.0482	0.0124	0.0122	0.0119	0.0122	0.0129	0.0133	0.0139	0.0146	0.0147	0.0484
575	0.0535	0.0504	0.0117	0.0117	0.0112	0.0114	0.0123	0.0127	0.0135	0.0134	0.0136	0.0535
625	0.0426	0.0400	0.0095	0.0092	0.0093	0.0090	0.0096	0.0100	0.0103	0.0103	0.0102	0.0426
675	0.0404	0.0379	0.0080	0.0078	0.0077	0.0077	0.0081	0.0085	0.0089	0.0089	0.0089	0.0404
725	0.0268	0.0288	0.0052	0.0053	0.0055	0.0055	0.0056	0.0061	0.0063	0.0064	0.0063	0.0288
775	0.0270	0.0279	0.0046	0.0046	0.0049	0.0048	0.0050	0.0053	0.0055	0.0058	0.0058	0.0279
825	0.0440	0.0306	0.0042	0.0042	0.0045	0.0045	0.0048	0.0050	0.0051	0.0053	0.0053	0.0440
875	0.0453	0.0315	0.0038	0.0039	0.0041	0.0041	0.0044	0.0046	0.0047	0.0050	0.0049	0.0453
925	0.0316	0.0394	0.0034	0.0037	0.0038	0.0040	0.0041	0.0042	0.0043	0.0045	0.0045	0.0394
975	0.0325	0.0424	0.0032	0.0034	0.0035	0.0037	0.0038	0.0040	0.0040	0.0043	0.0043	0.0424
1025	0.0305	0.0318	0.0030	0.0033	0.0032	0.0034	0.0035	0.0038	0.0039	0.0043	0.0043	0.0318
1075	0.0328	0.0339	0.0030	0.0032	0.0032	0.0034	0.0036	0.0038	0.0041	0.0044	0.0046	0.0339
1125	0.0577	0.0583	0.0051	0.0056	0.0054	0.0055	0.0058	0.0061	0.0065	0.0069	0.0071	0.0583
1175	0.0570	0.0598	0.0049	0.0056	0.0053	0.0054	0.0057	0.0062	0.0067	0.0071	0.0077	0.0598
1225	0.0566	0.0500	0.0034	0.0040	0.0037	0.0038	0.0042	0.0045	0.0050	0.0055	0.0061	0.0566
1275	0.0527	0.0482	0.0029	0.0034	0.0032	0.0034	0.0037	0.0041	0.0046	0.0050	0.0057	0.0527
1325	0.0322	0.0321	0.0018	0.0020	0.0021	0.0022	0.0023	0.0026	0.0028	0.0032	0.0036	0.0322
1375	0.0295	0.0278	0.0015	0.0017	0.0018	0.0019	0.0020	0.0023	0.0024	0.0027	0.0031	0.0295
1425	0.0293	0.0270	0.0013	0.0015	0.0015	0.0016	0.0017	0.0019	0.0021	0.0023	0.0027	0.0293
1475	0.0269	0.0256	0.0011	0.0014	0.0014	0.0014	0.0015	0.0017	0.0017	0.0019	0.0021	0.0269
1525	0.0254	0.0257	0.0010	0.0012	0.0012	0.0013	0.0013	0.0015	0.0015	0.0017	0.0018	0.0257
1575	0.0240	0.0242	0.0009	0.0010	0.0010	0.0011	0.0011	0.0012	0.0013	0.0014	0.0015	0.0242
1625	0.0226	0.0212	0.0008	0.0008	0.0009	0.0010	0.0009	0.0010	0.0011	0.0012	0.0013	0.0226
1675	0.0213	0.0204	0.0007	0.0008	0.0008	0.0009	0.0009	0.0009	0.0010	0.0011	0.0011	0.0213
1725	0.0257	0.0267	0.0008	0.0008	0.0009	0.0009	0.0009	0.0010	0.0010	0.0011	0.0012	0.0267
1775	0.0265	0.0273	0.0008	0.0008	0.0009	0.0009	0.0009	0.0009	0.0010	0.0010	0.0011	0.0273
1825	0.0263	0.0244	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0009	0.0009	0.0263
1875	0.0232	0.0218	0.0006	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0008	0.0232
1925	0.0151	0.0150	0.0004	0.0004	0.0005	0.0005	0.0005	0.0005	0.0005	0.0006	0.0006	0.0151
1975	0.0138	0.0137	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0005	0.0005	0.0005	0.0138

Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
f[KHZ]	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)
2.1	0.0552	0.0587	0.0012	0.0014	0.0013	0.0016	0.0015	0.0016	0.0015	0.0015	0.0018	0.0587
2.3	0.0326	0.0391	0.0007	0.0006	0.0009	0.0008	0.0008	0.0007	0.0008	0.0008	0.0009	0.0391
2.5	0.0494	0.0424	0.0007	0.0007	0.0007	0.0008	0.0007	0.0007	0.0008	0.0009	0.0011	0.0494
2.7	0.0406	0.0489	0.0006	0.0006	0.0006	0.0006	0.0005	0.0006	0.0007	0.0008	0.0009	0.0489
2.9	0.0308	0.0369	0.0004	0.0004	0.0004	0.0005	0.0004	0.0004	0.0005	0.0005	0.0006	0.0369
3.1	0.0338	0.0322	0.0004	0.0006	0.0006	0.0005	0.0004	0.0004	0.0005	0.0005	0.0006	0.0338
3.3	0.0256	0.0278	0.0003	0.0004	0.0004	0.0005	0.0004	0.0004	0.0004	0.0004	0.0005	0.0278
3.5	0.0253	0.0233	0.0003	0.0003	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0005	0.0253
3.7	0.0269	0.0262	0.0003	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0005	0.0269
3.9	0.0263	0.0319	0.0002	0.0003	0.0003	0.0004	0.0003	0.0003	0.0004	0.0004	0.0004	0.0319
4.1	0.0214	0.0233	0.0002	0.0003	0.0003	0.0003	0.0002	0.0002	0.0003	0.0003	0.0004	0.0233
4.3	0.0246	0.0305	0.0002	0.0003	0.0003	0.0004	0.0003	0.0003	0.0003	0.0003	0.0004	0.0305
4.5	0.0212	0.0213	0.0002	0.0003	0.0003	0.0003	0.0002	0.0002	0.0003	0.0003	0.0004	0.0213
4.7	0.0239	0.0220	0.0002	0.0003	0.0003	0.0003	0.0002	0.0002	0.0003	0.0003	0.0003	0.0239
4.9	0.0231	0.0238	0.0002	0.0002	0.0003	0.0003	0.0002	0.0002	0.0003	0.0003	0.0003	0.0238
5.1	0.0240	0.0310	0.0002	0.0002	0.0003	0.0003	0.0002	0.0002	0.0003	0.0003	0.0003	0.0310
5.3	0.0219	0.0244	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002	0.0002	0.0002	0.0003	0.0244
5.5	0.0287	0.0317	0.0002	0.0002	0.0003	0.0003	0.0002	0.0002	0.0003	0.0002	0.0003	0.0317
5.7	0.0304	0.0310	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002	0.0002	0.0002	0.0003	0.0310
5.9	0.0499	0.0503	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002	0.0003	0.0002	0.0003	0.0503
6.1	0.0347	0.0399	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002	0.0003	0.0002	0.0003	0.0399
6.3	0.0332	0.0376	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002	0.0002	0.0002	0.0003	0.0376
6.5	0.0360	0.0371	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002	0.0002	0.0002	0.0003	0.0371
6.7	0.0304	0.0286	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0003	0.0304
6.9	0.0338	0.0332	0.0001	0.0002	0.0002	0.0003	0.0002	0.0002	0.0002	0.0002	0.0003	0.0338
7.1	0.0352	0.0351	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0003	0.0352
7.3	0.0250	0.0260	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0003	0.0260
7.5	0.0246	0.0240	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0003	0.0004	0.0004	0.0246
7.7	0.0240	0.0236	0.0001	0.0002	0.0002	0.0002	0.0001	0.0002	0.0003	0.0003	0.0004	0.0240
7.9	0.0150	0.0146	0.0001	0.0002	0.0002	0.0002	0.0001	0.0001	0.0002	0.0002	0.0002	0.0150
8.1	0.0145	0.0151	0.0001	0.0002	0.0002	0.0002	0.0001	0.0001	0.0002	0.0002	0.0002	0.0151
8.3	0.0160	0.0158	0.0001	0.0002	0.0002	0.0002	0.0001	0.0001	0.0002	0.0001	0.0002	0.0160
8.5	0.0116	0.0120	0.0001	0.0002	0.0002	0.0002	0.0001	0.0001	0.0002	0.0001	0.0002	0.0120
8.7	0.0106	0.0114	0.0001	0.0002	0.0002	0.0002	0.0001	0.0001	0.0002	0.0001	0.0002	0.0114
8.9	0.0116	0.0120	0.0001	0.0002	0.0002	0.0002	0.0001	0.0001	0.0002	0.0001	0.0002	0.0120

Model: iMars XG136KTR-XF												
Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
Nr. /Order	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)
2	0.0704	0.1150	0.1297	0.1476	0.1641	0.1657	0.2083	0.2483	0.2797	0.3188	0.3486	0.3486
3	0.6352	0.6459	0.7313	0.7095	0.6761	0.6804	0.6837	0.7002	0.7227	0.7264	0.7129	0.7313
4	0.0522	0.0518	0.0676	0.0950	0.0856	0.1163	0.1234	0.1220	0.1413	0.1629	0.1731	0.1731
5	0.3618	0.3070	0.2814	0.3005	0.3032	0.3097	0.3134	0.2961	0.2872	0.2900	0.2957	0.3618
6	0.0813	0.0958	0.0275	0.0381	0.0375	0.0322	0.0337	0.0499	0.0540	0.0599	0.0646	0.0958
7	0.2893	0.4791	0.8047	0.6829	0.4370	0.2062	0.1026	0.1455	0.1953	0.2266	0.2451	0.8047
8	0.0329	0.0535	0.0219	0.0162	0.0249	0.0244	0.0368	0.0485	0.0492	0.0434	0.0407	0.0535
9	0.2728	0.1565	0.1285	0.1216	0.1214	0.1367	0.1513	0.1596	0.1550	0.1485	0.1437	0.2728
10	0.0382	0.0503	0.0116	0.0067	0.0070	0.0116	0.0172	0.0185	0.0229	0.0194	0.0166	0.0503
11	0.1715	0.2963	0.0615	0.0510	0.1195	0.0584	0.0287	0.0866	0.1194	0.1416	0.1573	0.2963
12	0.0303	0.0948	0.0127	0.0130	0.0121	0.0074	0.0084	0.0076	0.0083	0.0103	0.0114	0.0948
13	0.0833	0.4561	0.0525	0.0632	0.0340	0.0234	0.0145	0.0252	0.0473	0.0668	0.0795	0.4561
14	0.0307	0.0370	0.0070	0.0073	0.0043	0.0092	0.0058	0.0101	0.0140	0.0148	0.0147	0.0370
15	0.1434	0.1426	0.0258	0.0169	0.0285	0.0392	0.0363	0.0316	0.0299	0.0265	0.0257	0.1434
16	0.0210	0.0248	0.0043	0.0035	0.0036	0.0039	0.0040	0.0046	0.0076	0.0078	0.0083	0.0248
17	0.0484	0.2092	0.0219	0.0587	0.0500	0.0095	0.0175	0.0283	0.0356	0.0420	0.0520	0.2092
18	0.0240	0.0723	0.0032	0.0040	0.0047	0.0039	0.0051	0.0035	0.0040	0.0054	0.0077	0.0723
19	0.0594	0.1193	0.0224	0.0048	0.0263	0.0165	0.0174	0.0194	0.0233	0.0270	0.0289	0.1193
20	0.0347	0.0569	0.0071	0.0063	0.0065	0.0090	0.0087	0.0063	0.0061	0.0078	0.0103	0.0569
21	0.2114	0.2067	0.0172	0.0153	0.0220	0.0215	0.0185	0.0168	0.0201	0.0250	0.0299	0.2114
22	0.0417	0.0315	0.0023	0.0026	0.0026	0.0027	0.0060	0.0042	0.0050	0.0043	0.0035	0.0417
23	0.0944	0.2220	0.0094	0.0075	0.0171	0.0288	0.0143	0.0102	0.0204	0.0309	0.0393	0.2220
24	0.0551	0.0727	0.0048	0.0063	0.0035	0.0062	0.0057	0.0054	0.0056	0.0065	0.0071	0.0727
25	0.1237	0.1153	0.0097	0.0125	0.0086	0.0154	0.0149	0.0078	0.0071	0.0100	0.0112	0.1237
26	0.0499	0.0765	0.0031	0.0041	0.0057	0.0047	0.0065	0.0032	0.0034	0.0059	0.0085	0.0765
27	0.0684	0.0553	0.0039	0.0019	0.0056	0.0064	0.0038	0.0053	0.0050	0.0048	0.0052	0.0684
28	0.0396	0.0263	0.0017	0.0013	0.0014	0.0017	0.0026	0.0022	0.0028	0.0020	0.0024	0.0396
29	0.0642	0.0405	0.0062	0.0116	0.0020	0.0095	0.0129	0.0069	0.0029	0.0064	0.0116	0.0642
30	0.0204	0.0441	0.0017	0.0014	0.0016	0.0010	0.0010	0.0011	0.0012	0.0014	0.0017	0.0441
31	0.0341	0.0994	0.0026	0.0051	0.0048	0.0045	0.0061	0.0060	0.0044	0.0040	0.0055	0.0994
32	0.0175	0.0295	0.0016	0.0020	0.0014	0.0014	0.0022	0.0008	0.0013	0.0009	0.0018	0.0295
33	0.0421	0.0213	0.0013	0.0018	0.0023	0.0018	0.0027	0.0022	0.0017	0.0019	0.0028	0.0421
34	0.0236	0.0364	0.0005	0.0006	0.0006	0.0012	0.0007	0.0007	0.0009	0.0011	0.0008	0.0364
35	0.0589	0.0908	0.0020	0.0022	0.0047	0.0038	0.0047	0.0046	0.0033	0.0031	0.0044	0.0908
36	0.0194	0.0270	0.0005	0.0005	0.0008	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0270
37	0.0430	0.0357	0.0022	0.0012	0.0032	0.0025	0.0021	0.0025	0.0019	0.0015	0.0015	0.0430
38	0.0122	0.0174	0.0003	0.0004	0.0008	0.0009	0.0007	0.0005	0.0007	0.0005	0.0005	0.0174
39	0.0119	0.0142	0.0003	0.0003	0.0003	0.0004	0.0003	0.0004	0.0004	0.0005	0.0004	0.0142
40	0.0162	0.0197	0.0004	0.0005	0.0005	0.0005	0.0005	0.0004	0.0007	0.0007	0.0006	0.0197
41	0.0357	0.1013	0.0031	0.0042	0.0067	0.0052	0.0055	0.0069	0.0037	0.0042	0.0054	0.1013
42	0.0177	0.0314	0.0026	0.0022	0.0027	0.0017	0.0041	0.0006	0.0028	0.0025	0.0035	0.0314
43	0.0429	0.0223	0.0012	0.0019	0.0017	0.0023	0.0018	0.0033	0.0026	0.0018	0.0037	0.0429
44	0.0240	0.0370	0.0016	0.0001	0.0024	0.0020	0.0001	0.0013	0.0022	0.0008	0.0001	0.0370
45	0.0589	0.0925	0.0020	0.0026	0.0044	0.0048	0.0060	0.0057	0.0038	0.0025	0.0046	0.0925
46	0.0187	0.0265	0.0015	0.0011	0.0022	0.0009	0.0010	0.0012	0.0028	0.0027	0.0019	0.0265
47	0.0443	0.0376	0.0036	0.0023	0.0039	0.0019	0.0019	0.0040	0.0018	0.0010	0.0014	0.0443

Model: iMars XG136KTR-XF												
Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
Nr. /Order	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)
48	0.0121	0.0174	0.0001	0.0005	0.0001	0.0021	0.0019	0.0022	0.0008	0.0006	0.0005	0.0174
49	0.0109	0.0139	0.0011	0.0020	0.0022	0.0003	0.0017	0.0012	0.0006	0.0018	0.0009	0.0139
50	0.0179	0.0208	0.0002	0.0002	0.0001	0.0009	0.0018	0.0008	0.0001	0.0015	0.0026	0.0208

Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
f[Hz]	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)	I _h (%)
75	0.1061	0.1200	0.1074	0.1065	0.0351	0.1017	0.1033	0.1042	0.1116	0.1127	0.0557	0.1200
125	0.0310	0.0360	0.0352	0.0367	0.0302	0.0345	0.0357	0.0361	0.0426	0.0430	0.0284	0.0430
175	0.0278	0.0311	0.0300	0.0306	0.0276	0.0293	0.0311	0.0316	0.0354	0.0364	0.0282	0.0364
225	0.0631	0.0353	0.0274	0.0291	0.0249	0.0264	0.0278	0.0294	0.0318	0.0326	0.0269	0.0631
275	0.0705	0.0373	0.0250	0.0265	0.0198	0.0251	0.0246	0.0263	0.0280	0.0283	0.0250	0.0705
325	0.0621	0.0581	0.0197	0.0202	0.0162	0.0197	0.0197	0.0206	0.0222	0.0227	0.0210	0.0621
375	0.0626	0.0574	0.0158	0.0158	0.0126	0.0158	0.0165	0.0169	0.0179	0.0185	0.0177	0.0626
425	0.0274	0.0282	0.0126	0.0132	0.0107	0.0128	0.0134	0.0137	0.0143	0.0150	0.0142	0.0282
475	0.0275	0.0281	0.0107	0.0110	0.0118	0.0111	0.0114	0.0118	0.0124	0.0129	0.0123	0.0281
525	0.0496	0.0495	0.0121	0.0124	0.0110	0.0124	0.0131	0.0134	0.0142	0.0146	0.0147	0.0496
575	0.0529	0.0510	0.0115	0.0116	0.0091	0.0115	0.0119	0.0129	0.0134	0.0135	0.0134	0.0529
625	0.0418	0.0408	0.0092	0.0090	0.0076	0.0091	0.0093	0.0100	0.0102	0.0102	0.0101	0.0418
675	0.0402	0.0379	0.0078	0.0078	0.0055	0.0078	0.0082	0.0086	0.0090	0.0089	0.0089	0.0402
725	0.0261	0.0315	0.0052	0.0053	0.0049	0.0055	0.0057	0.0061	0.0064	0.0065	0.0061	0.0315
775	0.0271	0.0304	0.0046	0.0047	0.0044	0.0048	0.0050	0.0054	0.0056	0.0059	0.0056	0.0304
825	0.0441	0.0299	0.0042	0.0042	0.0041	0.0045	0.0047	0.0050	0.0052	0.0054	0.0054	0.0441
875	0.0447	0.0312	0.0038	0.0040	0.0037	0.0041	0.0043	0.0046	0.0048	0.0051	0.0049	0.0447
925	0.0313	0.0408	0.0035	0.0038	0.0034	0.0040	0.0041	0.0043	0.0045	0.0046	0.0045	0.0408
975	0.0333	0.0407	0.0031	0.0034	0.0032	0.0037	0.0038	0.0039	0.0041	0.0044	0.0043	0.0407
1025	0.0299	0.0319	0.0030	0.0033	0.0031	0.0034	0.0036	0.0038	0.0040	0.0043	0.0043	0.0319
1075	0.0330	0.0344	0.0030	0.0033	0.0052	0.0034	0.0036	0.0039	0.0042	0.0046	0.0047	0.0344
1125	0.0569	0.0586	0.0051	0.0057	0.0052	0.0055	0.0056	0.0062	0.0066	0.0070	0.0072	0.0586
1175	0.0575	0.0612	0.0049	0.0056	0.0036	0.0054	0.0057	0.0062	0.0067	0.0072	0.0076	0.0612
1225	0.0567	0.0499	0.0033	0.0040	0.0032	0.0039	0.0041	0.0046	0.0051	0.0056	0.0062	0.0567
1275	0.0532	0.0476	0.0029	0.0035	0.0020	0.0034	0.0037	0.0041	0.0046	0.0052	0.0058	0.0532
1325	0.0323	0.0334	0.0018	0.0020	0.0018	0.0022	0.0023	0.0026	0.0029	0.0033	0.0036	0.0334
1375	0.0294	0.0285	0.0015	0.0017	0.0015	0.0019	0.0020	0.0023	0.0025	0.0029	0.0032	0.0294
1425	0.0290	0.0274	0.0013	0.0015	0.0014	0.0017	0.0017	0.0020	0.0021	0.0024	0.0027	0.0290
1475	0.0270	0.0255	0.0011	0.0013	0.0012	0.0014	0.0015	0.0017	0.0018	0.0020	0.0021	0.0270
1525	0.0250	0.0257	0.0010	0.0012	0.0010	0.0013	0.0013	0.0015	0.0016	0.0017	0.0018	0.0257
1575	0.0242	0.0243	0.0009	0.0010	0.0009	0.0011	0.0011	0.0012	0.0013	0.0015	0.0015	0.0243
1625	0.0230	0.0214	0.0007	0.0008	0.0008	0.0010	0.0009	0.0011	0.0011	0.0013	0.0013	0.0230
1675	0.0212	0.0203	0.0007	0.0008	0.0009	0.0009	0.0008	0.0010	0.0010	0.0011	0.0011	0.0212
1725	0.0256	0.0265	0.0008	0.0008	0.0008	0.0010	0.0009	0.0010	0.0011	0.0012	0.0012	0.0265
1775	0.0261	0.0274	0.0007	0.0008	0.0007	0.0009	0.0009	0.0010	0.0011	0.0011	0.0011	0.0274
1825	0.0258	0.0249	0.0006	0.0007	0.0006	0.0008	0.0007	0.0008	0.0009	0.0009	0.0009	0.0258
1875	0.0230	0.0220	0.0005	0.0006	0.0004	0.0007	0.0006	0.0007	0.0008	0.0008	0.0008	0.0230
1925	0.0151	0.0151	0.0004	0.0004	0.0004	0.0005	0.0005	0.0005	0.0006	0.0007	0.0006	0.0151
1975	0.0139	0.0133	0.0003	0.0004	0.0005	0.0005	0.0004	0.0005	0.0005	0.0006	0.0005	0.0139

Pn(%)	0	10	20	30	40	50	60	70	80	90	100	Maximum value
f[KHZ]	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)	lh(%)
2.1	0.0549	0.0590	0.0012	0.0014	0.0013	0.0016	0.0015	0.0016	0.0017	0.0017	0.0017	0.0590
2.3	0.0326	0.0393	0.0007	0.0006	0.0008	0.0009	0.0008	0.0007	0.0010	0.0010	0.0008	0.0393
2.5	0.0492	0.0433	0.0007	0.0007	0.0007	0.0008	0.0007	0.0007	0.0010	0.0011	0.0011	0.0492
2.7	0.0406	0.0475	0.0005	0.0006	0.0005	0.0006	0.0005	0.0006	0.0008	0.0010	0.0009	0.0475
2.9	0.0309	0.0364	0.0004	0.0004	0.0004	0.0005	0.0004	0.0005	0.0006	0.0007	0.0006	0.0364
3.1	0.0338	0.0316	0.0004	0.0005	0.0005	0.0006	0.0004	0.0005	0.0006	0.0007	0.0006	0.0338
3.3	0.0256	0.0278	0.0003	0.0004	0.0004	0.0006	0.0004	0.0004	0.0006	0.0006	0.0004	0.0278
3.5	0.0252	0.0235	0.0003	0.0003	0.0003	0.0005	0.0004	0.0004	0.0006	0.0006	0.0005	0.0252
3.7	0.0267	0.0262	0.0003	0.0004	0.0003	0.0005	0.0004	0.0004	0.0006	0.0006	0.0004	0.0267
3.9	0.0263	0.0312	0.0002	0.0003	0.0003	0.0004	0.0003	0.0004	0.0005	0.0006	0.0004	0.0312
4.1	0.0214	0.0231	0.0002	0.0003	0.0002	0.0004	0.0002	0.0003	0.0005	0.0005	0.0003	0.0231
4.3	0.0246	0.0310	0.0002	0.0003	0.0002	0.0004	0.0003	0.0003	0.0005	0.0005	0.0004	0.0310
4.5	0.0211	0.0212	0.0002	0.0003	0.0002	0.0004	0.0002	0.0003	0.0005	0.0005	0.0003	0.0212
4.7	0.0239	0.0225	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002	0.0004	0.0005	0.0003	0.0239
4.9	0.0230	0.0242	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002	0.0004	0.0005	0.0003	0.0242
5.1	0.0239	0.0304	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002	0.0004	0.0005	0.0003	0.0304
5.3	0.0218	0.0245	0.0001	0.0002	0.0002	0.0003	0.0002	0.0002	0.0004	0.0004	0.0003	0.0245
5.5	0.0285	0.0314	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002	0.0004	0.0005	0.0003	0.0314
5.7	0.0304	0.0304	0.0001	0.0002	0.0002	0.0003	0.0002	0.0002	0.0004	0.0004	0.0003	0.0304
5.9	0.0501	0.0506	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002	0.0004	0.0004	0.0003	0.0506
6.1	0.0348	0.0401	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002	0.0004	0.0004	0.0003	0.0401
6.3	0.0334	0.0369	0.0001	0.0002	0.0002	0.0003	0.0002	0.0002	0.0004	0.0004	0.0003	0.0369
6.5	0.0362	0.0374	0.0001	0.0002	0.0002	0.0003	0.0002	0.0002	0.0004	0.0004	0.0003	0.0374
6.7	0.0304	0.0289	0.0001	0.0002	0.0002	0.0003	0.0002	0.0002	0.0004	0.0004	0.0003	0.0304
6.9	0.0340	0.0329	0.0001	0.0002	0.0002	0.0003	0.0002	0.0002	0.0004	0.0004	0.0002	0.0340
7.1	0.0354	0.0358	0.0001	0.0002	0.0002	0.0003	0.0002	0.0002	0.0004	0.0004	0.0002	0.0358
7.3	0.0250	0.0258	0.0001	0.0002	0.0001	0.0003	0.0002	0.0002	0.0004	0.0004	0.0002	0.0258
7.5	0.0247	0.0234	0.0001	0.0002	0.0001	0.0003	0.0002	0.0002	0.0005	0.0006	0.0003	0.0247
7.7	0.0241	0.0240	0.0001	0.0002	0.0001	0.0003	0.0001	0.0002	0.0005	0.0006	0.0003	0.0241
7.9	0.0151	0.0146	0.0001	0.0002	0.0001	0.0002	0.0001	0.0001	0.0004	0.0004	0.0002	0.0151
8.1	0.0146	0.0154	0.0001	0.0002	0.0001	0.0002	0.0001	0.0001	0.0003	0.0004	0.0002	0.0154
8.3	0.0160	0.0159	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0003	0.0004	0.0002	0.0160
8.5	0.0115	0.0118	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0003	0.0004	0.0002	0.0118
8.7	0.0106	0.0116	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0003	0.0003	0.0002	0.0116
8.9	0.0115	0.0118	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0003	0.0004	0.0002	0.0118

N.3.2 Misura di fluttuazioni di tensione dovute a manovre di sezionamento/separazione / Voltage fluctuations caused by Switching operations

Reference standard:

IEC 61400-21:2008-08 Ed.2 (§. 7.3)

Wind turbines

Part 21: Measurement and assessment of power quality characteristics of grid connected wind turbines

Table: Voltage fluctuations caused by switching operations

Grid frequency f [Hz]	50
Grid voltage U_n [V]	230/400 for model iMars XG110KTR 277/480 for model iMars XG136KTR-L 311/540 for model iMars XG136KTR-X
Rated current I_n [A]	58
Network impedance phase angle, k (°)	See follow table for details
Ambient temperature (°C)	25
Humidity (RH %)	70
Site	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch - ISO/EN 17025 testing Laboratory
Input voltage	780V

Model: iMars XG110KTR

Table: Voltage fluctuations caused by switching operations

Case of switching operation	Starting at 10% of rate power			
Network impedance phase angle, k (°)	30	50	70	85
Flick step factor, $K_f(\psi K)$	0.117	0.120	0.122	0.120
Voltage change factor, $K_u(\psi K)$	0.023	0.026	0.019	0.022
Maximum inrush current factor k_{imax}	0.021			
Case of switching operation	Starting at 100% of rate power			
Network impedance phase angle, k (°)	30	50	70	85
Flick step factor, $K_f(\psi K)$	0.119	0.088	0.085	0.088
Voltage change factor, $K_u(\psi K)$	0.024	0.025	0.026	0.023
Maximum inrush current factor k_{imax}	0.024			
Case of switching operation	Service disconnection at rated power			
Network impedance phase angle, k (°)	30	50	70	85
Flick step factor, $K_f(\psi K)$	0.068	0.069	0.068	0.068
Voltage change factor, $K_u(\psi K)$	0.025	0.027	0.024	0.023
Maximum inrush current factor k_{imax}	0.022			
Worst case over all switching operations, k_{imax}	0.024			

Supplementary information:

K_{imax} : is the ratio between the measured I_{max} and the I_{nom} (nominal current) of the device,

Model: iMars XG136KTR-L

Table: Voltage fluctuations caused by switching operations

Case of switching operation	Starting at 10% of rate power			
Network impedance phase angle, $k (^\circ)$	30	50	70	85
Flick step factor, $K_f(\Psi K)$	0.117	0.120	0.118	0.111
Voltage change factor, $K_u(\Psi K)$	0.031	0.026	0.028	0.024
Maximum inrush current factor k_{imax}	0.025			
Case of switching operation	Starting at 100% of rate power			
Network impedance phase angle, $k (^\circ)$	30	50	70	85
Flick step factor, $K_f(\Psi K)$	0.081	0.082	0.081	0.077
Voltage change factor, $K_u(\Psi K)$	0.024	0.030	0.026	0.027
Maximum inrush current factor k_{imax}	0.024			
Case of switching operation	Service disconnection at rated power			
Network impedance phase angle, $k (^\circ)$	30	50	70	85
Flick step factor, $K_f(\Psi K)$	0.055	0.069	0.068	0.064
Voltage change factor, $K_u(\Psi K)$	0.022	0.019	0.024	0.021
Maximum inrush current factor k_{imax}	0.020			
Worst case over all switching operations, k_{imax}	0.025			
Supplementary information:				
K_{imax} : is the ratio between the measured I_{max} and the I_{nom} (nominal current) of the device.				

Model: iMars XG136KTR-X				
Table: Voltage fluctuactions caused by switching operations				
Case of switching operation	Starting at 10% of rate power			
Network impedance phase angle, k (°)	30	50	70	85
Flick step factor, Kf(ΨK)	0.124	0.122	0.122	0.119
Voltage change factor, Ku(ΨK)	0.014	0.017	0.016	0.017
Maximum inrush current factor kimax	0.016			
Case of switching operation	Starting at 100% of rate power			
Network impedance phase angle, k (°)	30	50	70	85
Flick step factor, Kf(ΨK)	0.084	0.084	0.083	0.082
Voltage change factor, Ku(ΨK)	0.025	0.021	0.022	0.023
Maximum inrush current factor kimax	0.023			
Case of switching operation	Service disconnection at rated power			
Network impedance phase angle, k (°)	30	50	70	85
Flick step factor, Kf(ΨK)	0.071	0.057	0.056	0.069
Voltage change factor, Ku(ΨK)	0.027	0.030	0.028	0.025
Maximum inrush current factor kimax	0.025			
Worst case over all switching operations, kimax				
Supplementary information:				
K _{imax} : is the ratio between the measured I _{max} and the I _{nom} (nominal current) of the device.				

N.3.3 Misura di fluttuazioni di tensione (flicker) in condizioni di funzionamento continuo
/Voltage fluctuations (Flickers) during Continuous operation

Reference standard:

IEC 61400-21:2008-08 Ed.2 (§, 7,3)

Wind turbines

Part 21: Measurement and assessment of power quality characteristics of grid connected wind turbines

Flickers

Testing Method

- ☐ on site test (procedure IEC 61400-21)
- ☐ on site test with DC simulator or AC simulator
- ☒ test with DC simulator and AC simulator^(*)
(change of angle of network change 30°, 50°, 70° e 85°)

^(*) to use a flicker meter compliance with IEC 61000-4-15

Ambient temperature (°C) : 23.0

Humidity (RH %) : 66

Input voltage : 780V

Model: iMars XG110KTR

Grid impedance angle, ψ_k	30	50	70	85
Power level [%P _n]	Flicker coefficient, c(ψ_k)			
0 – 5	9.30	9.50	9.30	9.66
10	9.24	9.56	9.22	9.36
20	9.38	9.40	9.16	9.36
30	9.52	9.36	9.50	9.26
40	9.34	9.46	9.18	9.40
50	9.48	9.32	9.38	9.30
60	9.12	9.34	9.30	9.24
70	9.38	9.46	9.20	9.26
80	9.36	9.22	9.34	9.42
90	8.28	9.46	9.32	9.12
100	8.58	9.38	9.34	9.48
Max. flicker coefficient, c(ψ_k)	9.52	9.56	9.50	9.48
Max. Short-term flicker, P _{st}	0.476	0.478	0.475	0.474
Reactive power setpoint during testing [Kvar]	0			
Ratio S _{k,fit} /S _n in the fictitious grid used for analysis	20			

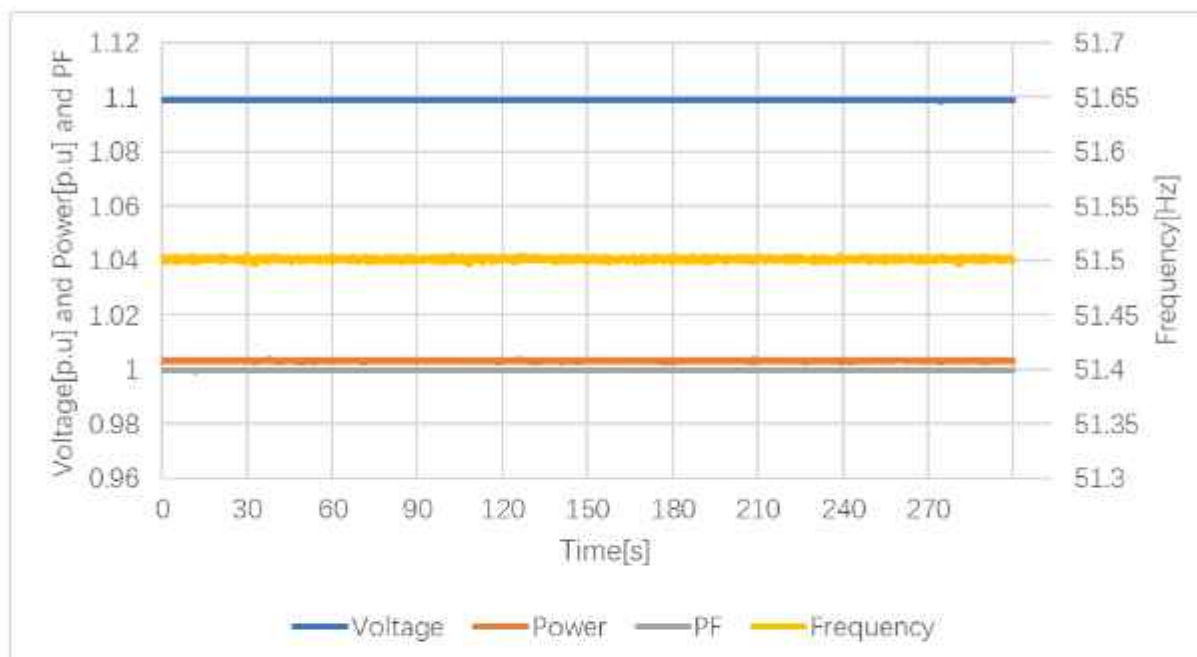
Model: iMars XG136KTR-L				
Grid impedance angle, ψ_k	30	50	70	85
Power level [%P _n]	Flicker coefficient, $c(\psi_k)$			
0 – 5	9.46	9.34	9.14	9.14
10	9.16	9.30	9.22	9.08
20	9.16	9.36	9.16	9.18
30	9.46	9.26	9.24	8.98
40	9.32	9.28	9.46	9.02
50	9.38	9.56	9.34	9.26
60	9.22	9.26	9.28	8.84
70	9.36	9.28	9.18	9.12
80	9.28	9.26	9.16	9.04
90	9.48	9.44	9.28	9.02
100	9.38	9.38	9.20	9.04
Max. flicker coefficient, $c(\psi_k)$	9.48	9.56	9.46	9.26
Max. Short-term flicker, P _{st}	0.474	0.478	0.473	0.449
Reactive power setpoint during testing [Kvar]	0			
Ratio S _{k,fit} /S _n in the fictitious grid used for analysis	20			
Model: iMars XG136KTR-X				
Grid impedance angle, ψ_k	30	50	70	85
Power level [%P _n]	Flicker coefficient, $c(\psi_k)$			
0 – 5	9.80	9.84	9.80	9.62
10	9.84	9.66	9.78	9.62
20	9.70	9.70	9.66	9.66
30	9.48	9.70	9.74	9.68
40	9.68	9.76	9.74	9.56
50	9.60	9.90	9.64	9.58
60	9.72	9.88	9.66	9.60
70	9.88	9.70	9.74	9.58
80	9.68	9.70	9.60	9.68
90	9.70	9.90	9.82	9.56
100	9.74	9.88	9.78	9.74
Max. flicker coefficient, $c(\psi_k)$	9.88	9.90	9.82	9.74
Max. Short-term flicker, P _{st}	0.494	0.489	0.486	0.482
Reactive power setpoint during testing [Kvar]	0			
Ratio S _{k,fit} /S _n in the fictitious grid used for analysis	20			

N,4 Verifica del campo di funzionamento in tensione e frequenza /Voltage-frequency working range			
Normal working range:		$85\%V_n \leq V \leq 110\%V_n$ $47,5 \text{ Hz} \leq f \leq 51,5 \text{ Hz}$	
Grid frequency f [Hz]:		50	
Grid voltage U_n [V]:		230/400	
Testing Method:		N,4,1 Generatori statici ☒ N,4,1,1 - Prove a piena potenza su rete simulata /full power test with grid simulator ☐ N,4,1,2 - Prove a potenza ridotta su rete simulata /limited power test with grid simulator ($\geq 30\text{KW}$)	
Ambient temperature (°C)		24.0	
Humidity (RH %)		70	
Input voltage		780V (typical value specified by the manufacturer)	
Set Value	Limit Value	Time [min,]	Result
85,4%V _n	85%V _n	5	Pass
109,2%V _n	110%V _n	5	Pass
47,5 Hz	47,5 Hz	5	Pass
51,5 Hz	51,5 Hz	5	Pass
N,4,1,1 - Prove a piena potenza su rete simulata /full power test with grid simulator			
Test 1			
Setting value: V=85%V _n ; f=47,5Hz; P=100%*S _n ; Cosφ=1 *EUT is allowed to operate at reduced power, equal to the maximum output for limit reached maximum output current (P≥85% * S _n)			
Graph showing Voltage [p.u.] and Power [p.u.] and PF and Frequency [Hz] over Time [s]. Legend: Voltage (blue), Power (orange), PF (grey), Frequency (yellow).			

Test 2

Setting value: $V=110\%V_n$; $f=51,5\text{Hz}$; $P=100\%S_n$; $\cos\phi=1$

* disable N,7,2 automatic function (active power limitation with underfrequency transient in the grid)



N,5 Verifica delle condizioni di sincronizzazione e presa di carico

/synchronization and re-connection

☒ N,5,1,1 Prove a piena potenza su rete simulata

/full power test with grid simulator

☐ N,5,1,2 Metodi di prova alternativi

/Alternative methods

- Converter and static converter:

☐ N,5,1,2,a) Prove a potenza ridotta su rete simulata
/limited power test with grid simulator ($\geq 30\text{KW}$)

- All devices:

☐ N,5,1,2,b) Prova sul solo sistema di controllo
/test on system control,

☐ N,5,1,2,c) Con generatore connesso alla rete
/test with generator connect to grid,

☐ N,5,1,2,d) Su rete con modifica dei parametri di controllo
/test with generator connect to grid and system control
parameter changes,

N,5,2 Verifica della erogazione graduale della potenza attiva (presa di carico)

/ gradually erogation of the power

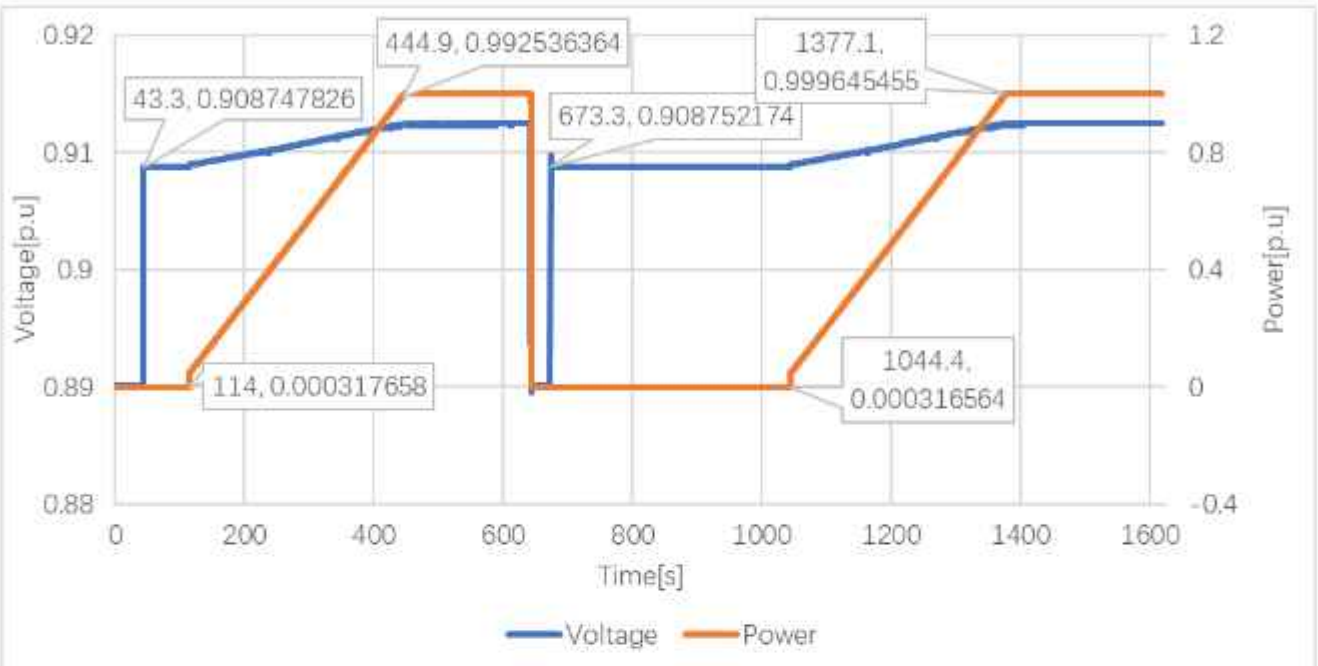
Normal working range:	90% ÷ 110 % Un 49,90Hz and 50,10Hz (default values) (*) (*) frequency range regulation: 49 Hz and 51 Hz
Ambient temperature (°C)	22,0
Humidity (RH %)	70
Input voltage	780V (typical value specified by the manufacturer)

T=30s → first connection, maintenance, no SPI disconnection

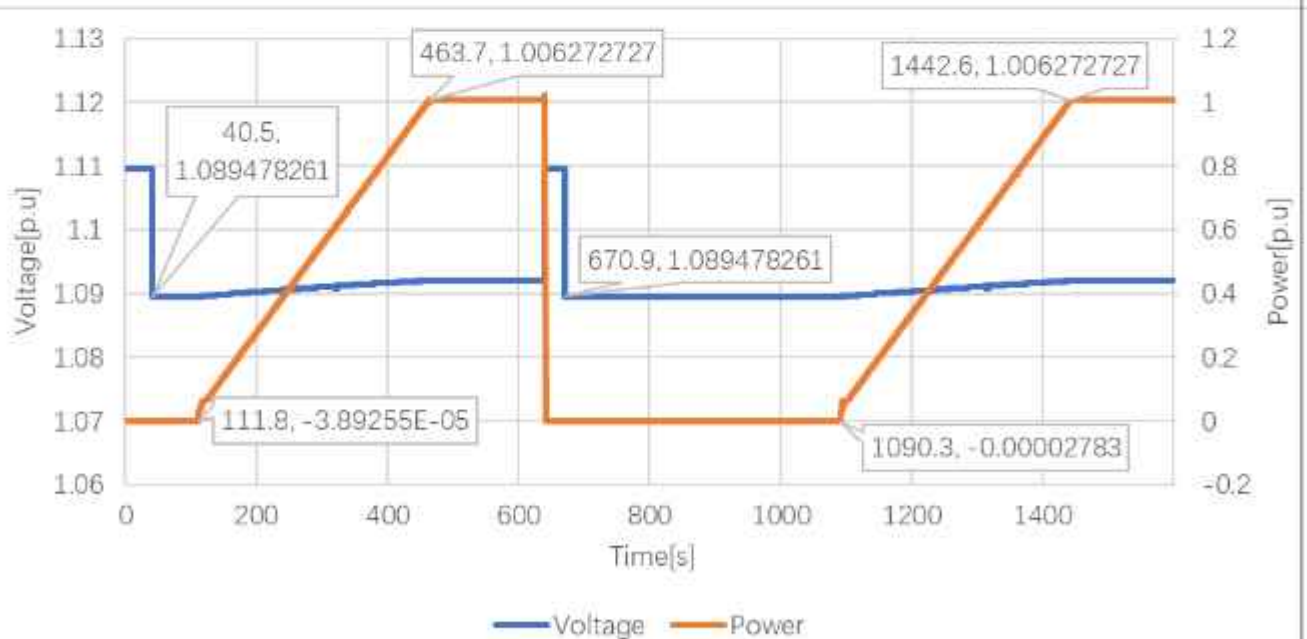
U [Vac] Set Value	Limit [Vac]	f [Hz] Set Value	Limits [Hz]	Out Power [%]	Reconnect ion Time [sec]	Ramp Time [sec]	Ramp gradient [% Pn/s]	Acceptability criteria	note
0.89Un	U < 90%	50,00	49,90 Hz <F< 50,10 Hz	100 %	---	---	---	no connection after 30 s	UV a) §N,5,1,1
0.91Un	90% <U< 110%	50,00	49,90 Hz <F< 50,10 Hz	100 %	70.7	330.9	0.302	Delay for Connection > 30 s	b) §N,5,1,1
1.11Un	U>110 %	50,00	49,90 Hz <F< 50,10 Hz	100 %	---	---	---	no connection after 30 s	OV a) §N,5,1,1
1.088Un	90% <U< 110%	50,00	49,90 Hz <F< 50,10 Hz	100 %	71.3	351.9	0.284	Delay for Connection > 30 s	b) §N,5,1,1
1.00Un	90% <U< 110%	49,88	F< 49,90Hz	100 %	---	---	---	no connection after 30 s	UF d) §N,5,1,1
1.00Un	90% <U< 110%	49,92	49,90 Hz <F< 50,10 Hz	100 %	69.3	353.1	0.283	Delay for Connection > 30 s	b) §N,5,1,1
1.00Un	90% <U< 110%	50,20	F > 50,10 Hz	100 %	---	---	---	no connection after 30 s	OF d) §N,5,1,1

1.00Un	90% <U< 110%	50,08	49,90 Hz <F< 50,10 Hz	100 %	66.1	353.4	0.283	Delay for Connection > 30 s	b) §N,5,1,1
T=300s → after SPI disconnection (programmable value from 0s ÷ 900s with step of 5 s)									
U [Vac] Set Value	Limit [Vac]	f [Hz] Set Value	Limits [Hz]	Out Power [%]	Reconnect ion Time [sec]	Ramp Time [sec]	Ramp gradient [% Pn/s]	Acceptability criteria	note
0.89Un	U < 90%	50	49,90 Hz <F< 50,10 Hz	100 %	---	---	---	no connection after 300 s (first switch-on)	UV a) §N,5,1,1
0.908Un	90% <U< 110%	50	49,90 Hz <F< 50,10 Hz	100 %	371.1	332.7	0.301	Delay for Reconnection > 300 s	Reconnection after fault recovery c) §N,5,1,1
1.109Un	U> 110%	50	49,90 Hz <F< 50,10 Hz	100 %	---	---	---	no connection after 300 s	OV a) §N,5,1,1
1.089Un	90% <U< 110%	50	49,90 Hz <F< 50,10 Hz	100 %	419.4	352.3	0.284	Delay for Reconnection > 300 s	Reconnection after fault recovery c) §N,5,1,1
1.00Un	90% <U< 110%	49.88	F< 49.90Hz	100 %	---	---	---	no connection after 300 s	UF a) §N,5,1,1
1.00Un	90% <U< 110%	49.92	49,90 Hz <F< 50,10 Hz	100 %	364.5	355.7	0.281	Delay for Reconnection > 300 s	Reconnection after fault recovery f) §N,5,1,1
1.00Un	90% <U< 110%	50,12	F > 50,10 Hz	100 %	---	---	---	no connection after 300 s	OF a) §N,5,1,1
1.00Un	90% <U< 110%	50.08	49,90 Hz <F< 50,10 Hz	100 %	370.0	352.8	0.283	Delay for Reconnection > 300 s	Reconnection after fault recovery f) §N,5,1,1
Standard requirements:			Gradient:		20%*PM/min (where: PM is maximum active power)				
			Limit:		P<0,333%Pn/s from power level > 10%*Pn				
			Sampling:		Record Active output power with a min. sampling of 1 sample/sec,				
			Tolerance:		+2,5%*Pn				
programmable value of T300 and step:						Range: 0 to 900 s Step: 1 s			

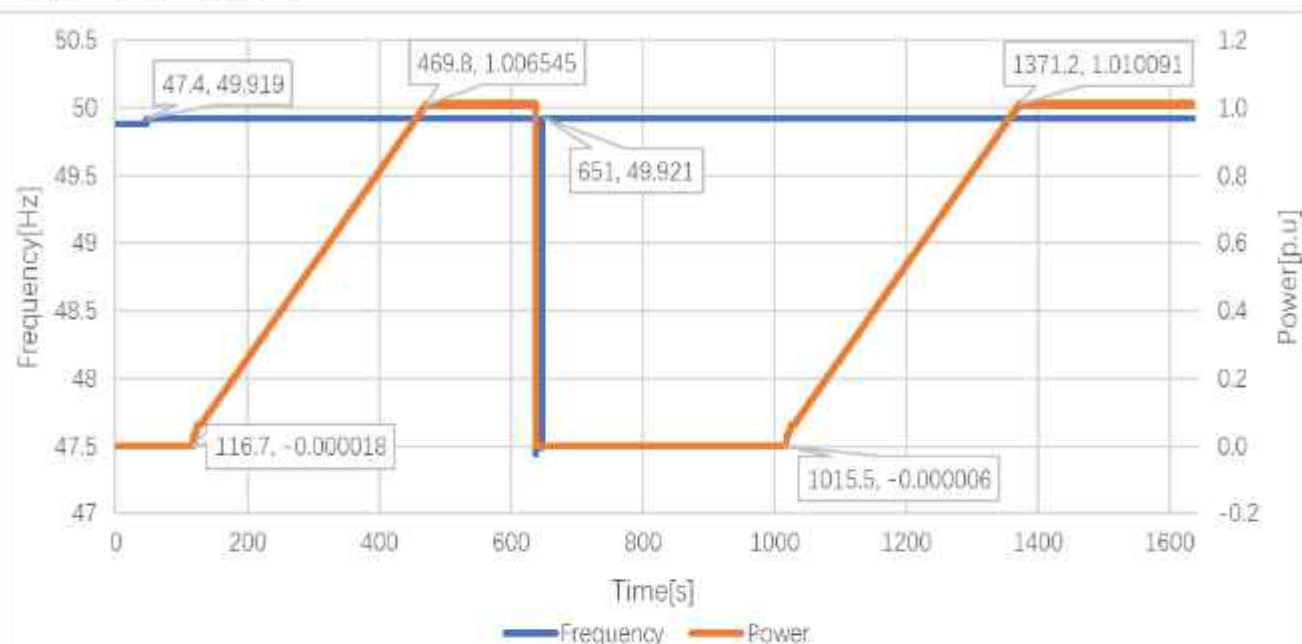
Graph – under voltage



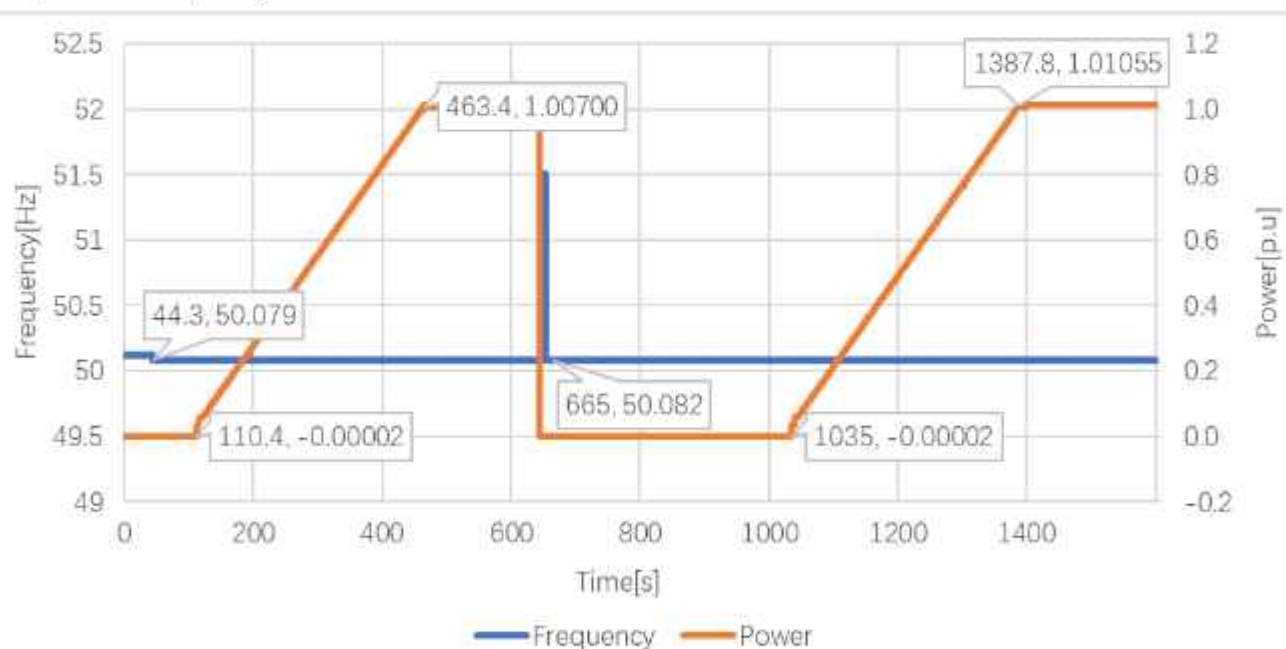
Graph – over voltage



Graph –under frequency



Graph –over frequency



N.6.1 Verifica della capability di erogazione della potenza reattiva

/reactive power production capability

Potenza massima dell'impianto di destinazione:

Maximum power of the destination plant:

☒ PV plant < 400 KW (see picture 1A)

☐ PV plant $\geq$ 400 KW (see picture 1B)

☐ Wind generator (see picture 1C)

Tolerance:

$\Delta Q \leq \pm 5\%$ for each measured points

For values of $P \leq 10\% \cdot S_n \rightarrow \Delta Q \leq \pm 10\% S_n$

Sampling:

For each of the 11 levels of active power, 1 values of inductive reactive power and 1 values of capacitive reactive power must be recorded, as averaged values in 1 min, based on the measurements at the fundamental frequency in a window of 200ms,

Ambient temperature (°C)

25

Humidity (RH %)

70

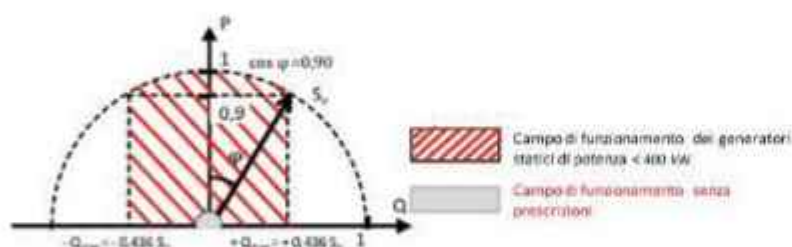
Input voltage

780V (typical value specified by the manufacturer)

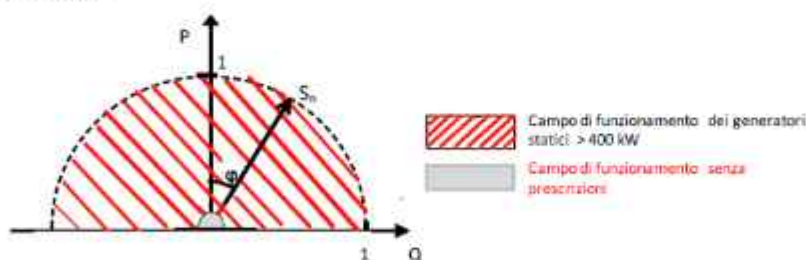
Deviation for wind generator (FC e DFIG) - N,6,1,2:

Test performed according: IEC 61400-21 Ed, 2, §, 6,7,1 and §, 7,7,1,

Picture 1A



Picture 1B



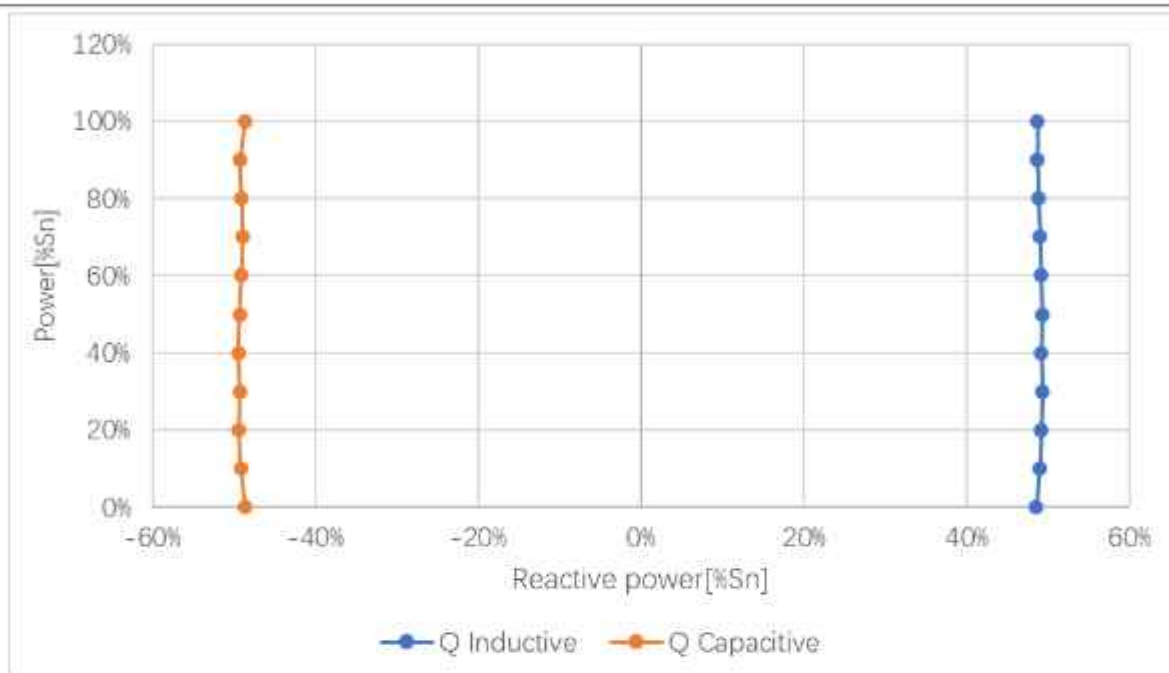
Picture 1C



Rectangular Curve (Inductive)							
P Desired (%Sn)	Power DC (KW)	P measured (%Sn)	S measured (%Sn)	Power factor (cos ϕ)	Q measured (%Sn)	Q desired (%Sn)	Q deviation (%Sn)
0	3.32	2.66	48.86	0.0545	48.57	--	--
10	11.86	10.12	50.02	0.2023	48.98	48.43	0.55
20	23.04	20.12	53.14	0.3786	49.19	48.43	0.76
30	34.43	30.32	57.93	0.5233	49.36	48.43	0.93
40	45.46	40.20	63.55	0.6325	49.22	48.43	0.79
50	56.77	50.30	70.43	0.7141	49.30	48.43	0.87
60	68.12	60.38	77.85	0.7756	49.14	48.43	0.71
70	79.38	70.37	85.75	0.8206	49.01	48.43	0.58
80	90.53	80.24	93.96	0.8540	48.87	48.43	0.44
90	100.54	89.10	101.56	0.8773	48.74	48.43	0.31
100	111.21	98.71	110.08	0.8966	48.74	48.43	0.31

Rectangular Curve (Capacitive)							
P Desired (%Sn)	Power DC (KW)	P measured (%Sn)	S measured (%Sn)	Power factor (cos ϕ)	Q measured (%Sn)	Q desired (%Sn)	Q deviation (%Sn)
0	3.62	2.61	48.83	0.0535	-48.57	--	--
10	12.77	10.10	50.17	0.2013	-49.14	-48.43	-0.71
20	24.00	20.21	53.28	0.3792	-49.30	-48.43	-0.87
30	35.14	30.21	57.76	0.5230	-49.23	-48.43	-0.80
40	46.32	40.21	63.70	0.6313	-49.40	-48.43	-0.97
50	57.41	50.11	70.29	0.7130	-49.28	-48.43	-0.85
60	68.75	60.22	77.67	0.7753	-49.05	-48.43	-0.62
70	79.99	70.22	85.60	0.8203	-48.96	-48.43	-0.53
80	91.28	80.22	94.02	0.8532	-49.03	-48.43	-0.60
90	102.58	90.21	102.73	0.8781	-49.15	-48.43	-0.72
100	112.00	98.78	110.11	0.8971	-48.64	-48.43	-0.21

Capability for static generators in plants with power < 400 kW (limited Rectangular characteristic)



N,6,2 Scambio di potenza reattiva secondo un livello assegnato
/Reactive power production according to an assigned level

N,6,2,1 Modalità di esecuzione della prova e registrazione dei risultati applicabile a generatori statici (ipotesi di reg. tramite Q)
/ Procedure for static generator (regulation through Q),

Tollerance:	$\Delta Q \leq \pm 5\% S_n$ (settings made by reactive power level) $\Delta \cos \phi \leq \pm 0,02$ (settings made by power factor)
Sampling:	1min, average value
Ambient temperature (°C)	21.5
Humidity (RH %)	62
Input voltage	780V (typical value specified by the manufacturer)

Deviation for wind generator (FC e DFIG) - N,6,2,2:

Test performed according: IEC 61400-21 Ed, 2, §, 6,7,2 and §, 7,7,2

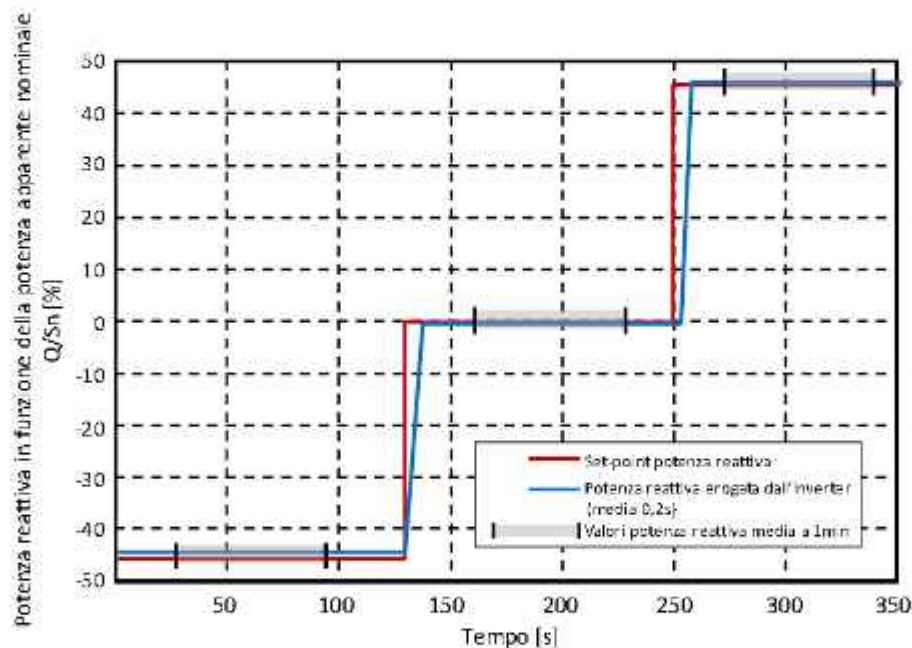
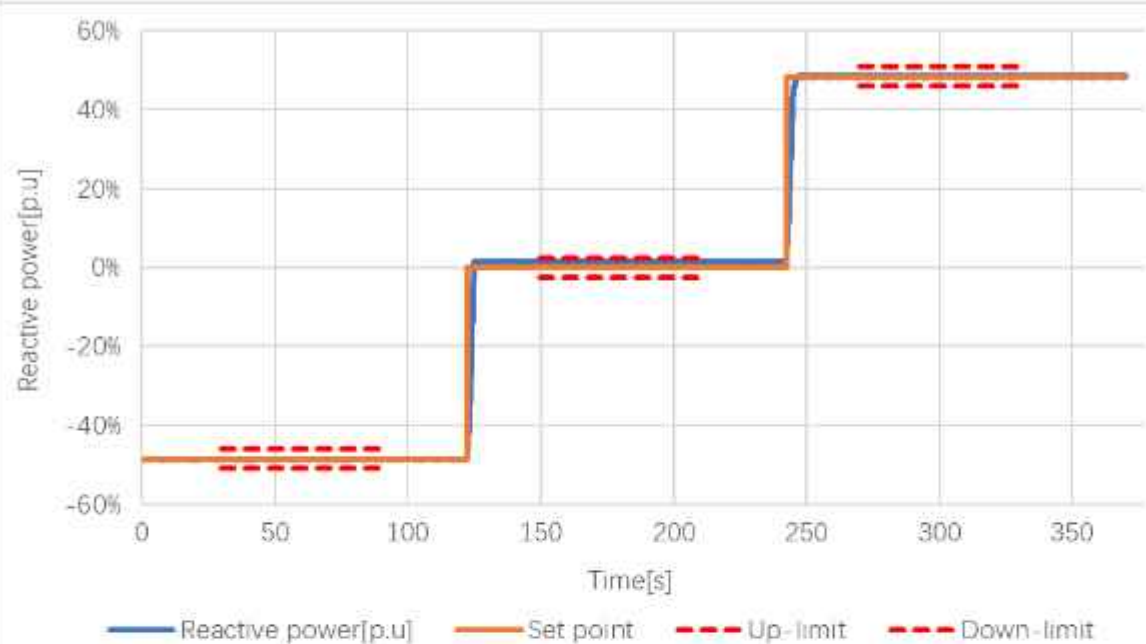


Figura 18 – Misura della potenza reattiva erogata in base ad un comando esterno, verifica di accuratezza

50% S_n	Reactive power Set-point Q/Sn [%]	Measured Q/Sn [%]	Deviation $\Delta Q/S_n$ [%]	Limit [%]	RESULT
Qmax ind	-48.43	-48.76	-0.33	$\Delta Q \leq \pm 5\%$	PASS
0	0	1.99	1.99	$\Delta Q \leq \pm 5\%$	PASS
Qmax cap	+ 48.43	48.95	0.52	$\Delta Q \leq \pm 5\%$	PASS



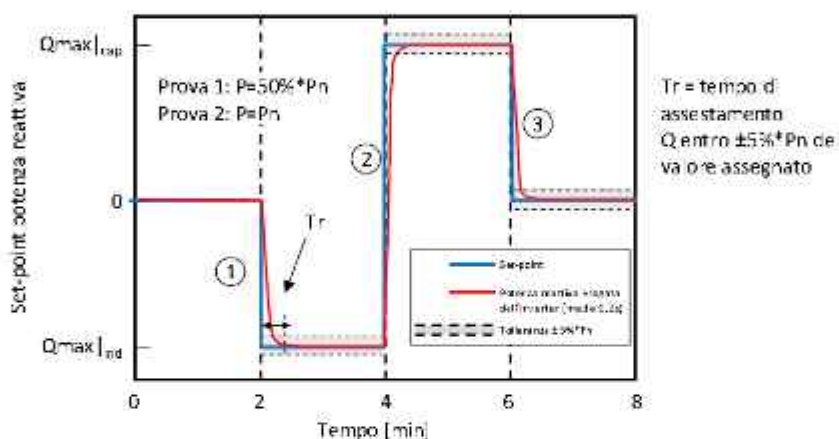
N,6,2 Scambio di potenza reattiva secondo un livello assegnato
/Reactive power production according to an assigned level

N,6,2,3 Tempo di risposta ad una variazione a gradino del livello assegnato
/Reaction time after a step variation of the assigned level,

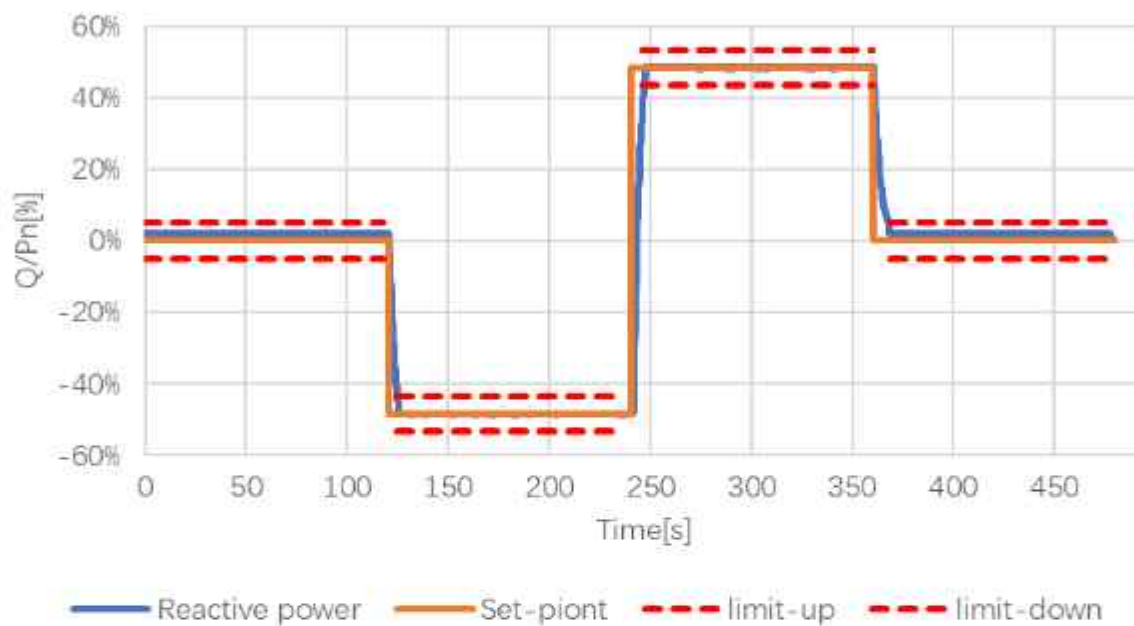
Ambient temperature (°C)	24
Humidity (RH %)	66
Input voltage	780V (typical value specified by the manufacturer)

Deviation for wind generator (FC e DFIG) - N,6,2,2:

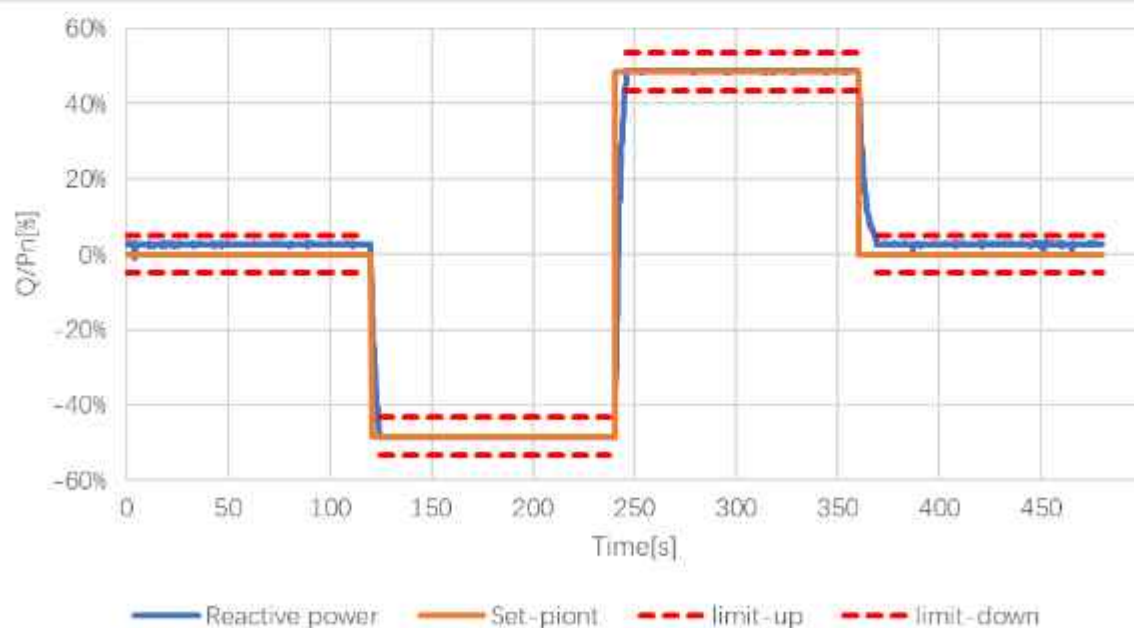
Test performed according: IEC 61400-21 Ed. 2, §. 6,7,2 and §. 7,7,2



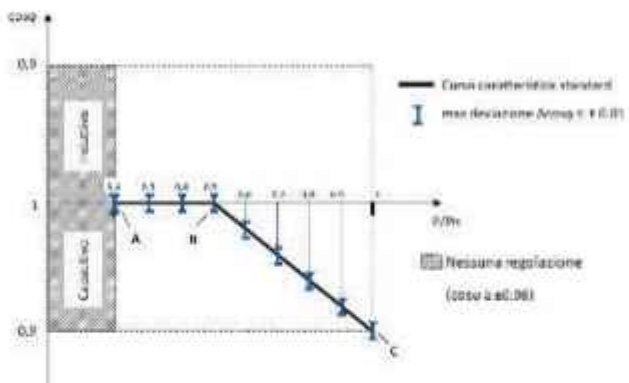
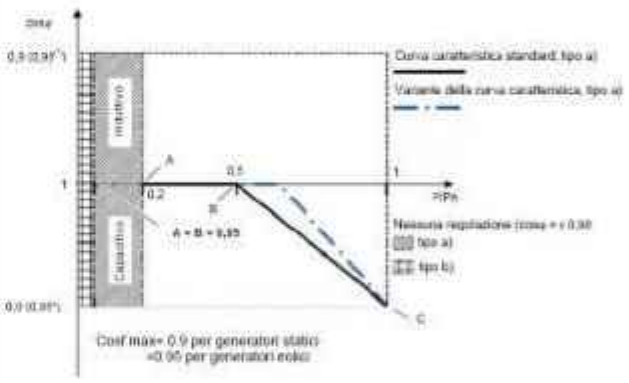
Reactive power set point	Maximum response time (s)	
	50% of rated active power	100% of rated active power
Zero to -Qmin	4.8	4.8
-Qmin to +Qmax	6.4	5.4
+Qmax to zero	7.6	9.0
Limit	10	



50% of rated active power

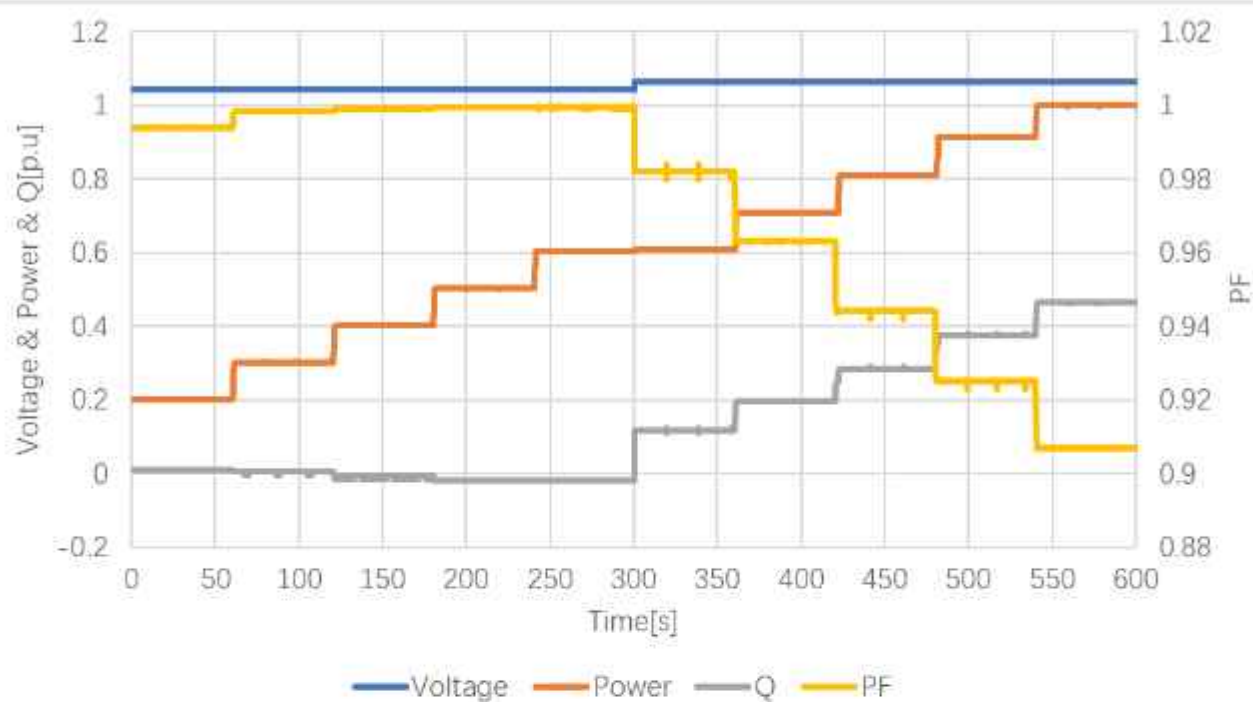


100% of rated active power

N.6.3 Regolazione automatica di potenza reattiva secondo una curva caratteristica $\cos\phi = f(P)$ /Automatic reactive power production according to a characteristic curve $\cos(\phi)=f(P)$		P
Set values:	Lock-in: 1,05 Vn (default 1,05Vn) (Vn and 1,1 Vn with steps of 0,01) Lock-out: 0,98 Vn (0,9 Vn and Vn with steps of 0,01)	
Sampling:	Active/reactive power and power factor measured as average in 1s,	
Ambient temperature (°C)	23	
Humidity (RH %)	70	
Input voltage	780V (typical value specified by the manufacturer)	
		
Curve A: Standard curve,		Curve B: The points A, B and C must be programmable, Curve B is not verified, because it is directly connect to standard curve Type A

P/Pn (%)	P [p.u]	Voltage(p.u)	Q [p.u]	Measured $\cos \phi$	Desired $\cos \phi$	$\Delta \cos \phi$	Limit $\Delta \cos \phi_{max}$
20%	0.201	1.04	0.008	0.9939	1	-0.0061	± 0.01
30%	0.303	1.04	0.006	0.9983	1	-0.0017	± 0.01
40%	0.401	1.04	-0.009	0.9991	1	-0.0009	± 0.01
50%	0.503	1.04	-0.018	0.9994	1	-0.0006	± 0.01
60%	0.605	1.04	-0.019	0.9995	1	-0.0005	± 0.01
60%	0.607	1.06	0.117	0.9818	0.98	0.0018	± 0.01
70%	0.709	1.06	0.199	0.9626	0.96	0.0026	± 0.01
80%	0.810	1.06	0.283	0.9439	0.94	0.0039	± 0.01
90%	0.912	1.06	0.375	0.9251	0.92	0.0051	± 0.01
100%	0.999	1.06	0.464	0.9069	0.9	0.0069	± 0.01

Graph:



N,6,4 Erogazione/assorbimento automatico di potenza reattiva secondo una curva caratteristica $Q=f(V)$

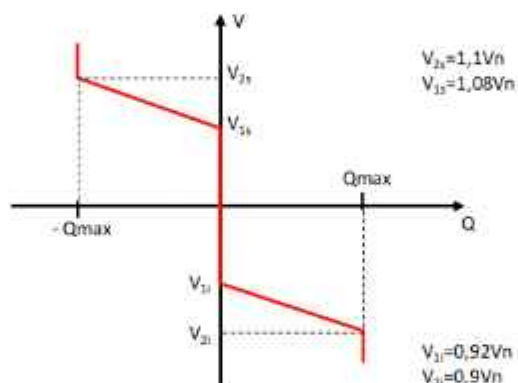
applicabile a generatori con capability rettangolare

/Automatic reactive power production according to a characteristic curve $Q=f(V)$

N,6,4,1 Verifica di rispondenza alle modalità di applicazione della curva caratteristica $Q=f(V)$

/characteristic curve $Q=f(V)$ verification

Sampling:	Active/reactive power and power factor measured as average in 1s,
Set value:	Lock-in: 0,2 Pn (default value: 0,2Pn) (0,1 Pn and Pn with steps of 0,1 Pn) Lock-out: 0,05 Pn
Ambient temperature (°C)	21.5
Humidity (RH %)	62
Input voltage	780V (typical value specified by the manufacturer)



Curve settings:

• $V_{1s} = 1,08V_n$; $V_{2s} = 1,1V_n$;

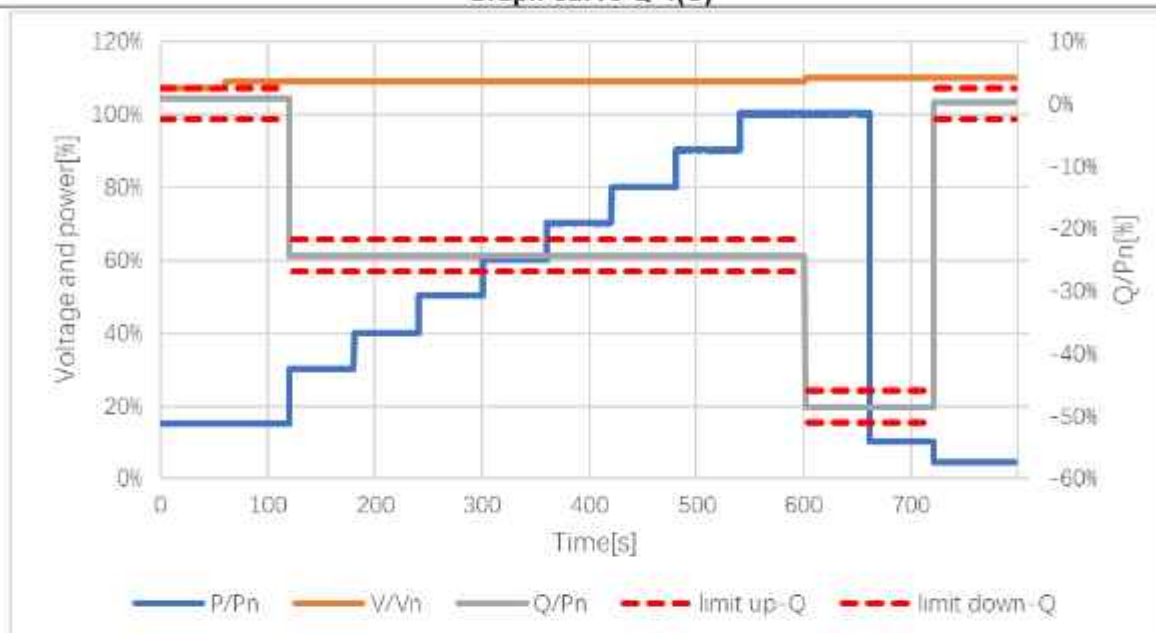
• $V_{1i} = 0,92V_n$; $V_{2i} = 0,9V_n$

(V_{1i} , V_{2i} , V_{1s} and V_{2s} must be programmable in a range 0,9÷1,1 Vn with steps 0,01Vn.)

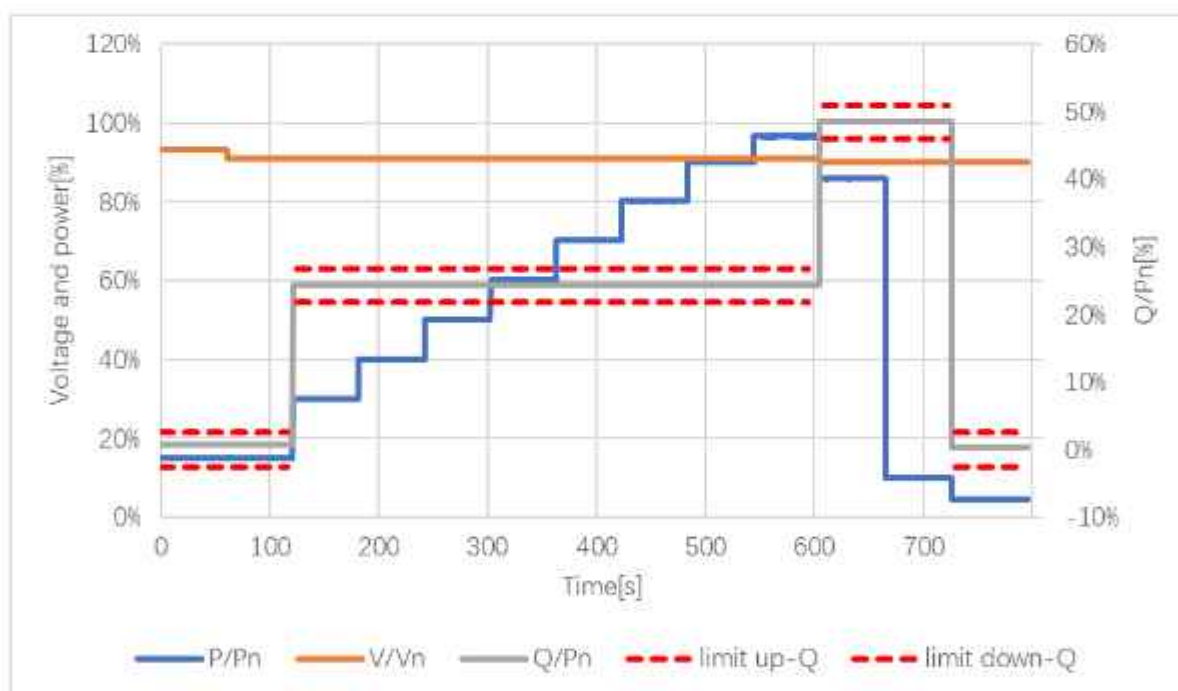
V_{1i}, V_{2i}, V_{1s} and V_{2s} programmable value:	Range: 0,9 to 1,1Vn Step: 0,01Vn
--	-------------------------------------

Set Point		Measure			Q/Pn[%] expected	$\Delta Q \%$ ($\leq \pm 5 \% Pn$)
P/Pn[%]	V/Vn	P/Pn[%]	Vout	Q/Pn[%]		
<20%	1,07	15.02	246.1	0.77	$\approx 0 (< \pm 5 \% Sn)$	0.77
<20%	1,09	15.02	250.7	0.77	$\approx 0 (< \pm 5 \% Sn)$	0.77
<20 % $\rightarrow$ 30 %	1,09	30.04	250.7	-24.30	-0,5 Qmin (<10 sec)	-0.085
40%	1,09	40.06	250.7	-24.30	-0,5 Qmin	-0.085
50%	1,09	50.06	250.7	-24.30	-0,5 Qmin	-0.085
60%	1,09	60.11	250.7	-24.30	-0,5 Qmin	-0.085
70%	1,09	70.09	250.7	-24.30	-0,5 Qmin	-0.085
80%	1,09	80.10	250.7	-24.30	-0,5 Qmin	-0.085
90%	1,09	90.12	250.7	-24.30	-0,5 Qmin	-0.085
100%	1,09	100.28	250.7	-24.30	-0,5 Qmin	-0.085
100%	1,10	100.28	253.0	-48.59	- Qmin	-0.16
100 % $\rightarrow$ 10%	1,10	10.02	253.0	-48.59	- Qmin	-0.16
10 % $\rightarrow \leq$ 5%	1,10	4.51	253.0	0.31	$\approx 0 (< \pm 5 \% Sn)$	0.31
Set Point		Measure			Q/Pn[%] expected	$\Delta Q \%$ ($\leq \pm 5 \% Pn$)
P/Pn[%]	V/Vn	P/Pn[%]	Vout	Q/Pn[%]		
<20%	0,93	15.02	213.9	0.77	$\approx 0 (< \pm 5 \% Sn)$	0.77
<20%	0,91	15.02	209.3	0.77	$\approx 0 (< \pm 5 \% Sn)$	0.77
<20 % $\rightarrow$ 30 %	0,91	30.04	209.3	24.30	0,5 Qmin (<10 sec)	0.085
40%	0,91	40.06	209.3	24.30	0,5 Qmin	0.085
50%	0,91	50.06	209.3	24.30	0,5 Qmin	0.085
60%	0,91	60.11	209.3	24.30	0,5 Qmin	0.085
70%	0,91	70.09	209.3	24.30	0,5 Qmin	0.085
80%	0,91	80.10	209.3	24.30	0,5 Qmin	0.085
90%	0,91	90.12	209.3	24.30	0,5 Qmin	0.085
100%	0,91	96.70	209.3	24.30	0,5 Qmin	0.085
100%	0,90	85.80	207.0	48.59	Qmin	0.16
100 % $\rightarrow$ 10%	0,90	10.02	207.0	48.59	Qmin	0.16
10 % $\rightarrow \leq$ 5%	0,90	4.51	207.0	0.31	$\approx 0 (< \pm 5 \% Sn)$	0.31

Graph curve $Q=f(U)$



$V1s=1,08Vn$; $V2s=1,1Vn$



$V1i=0,92Vn$; $V2i=0,9Vn$

N,7,1 Limitazione automatica in logica locale, per valori di tensione prossimi al 110%

/Active power limitation for voltage values near to 100 % di Un

☒ N,7,1,1 Esecuzione delle prove e verifica dei risultati per generatori statici

/tests and verification of the results for static generators

☐ N,7,1 2 Esecuzione delle prove e verifica dei risultati per generatori eolici

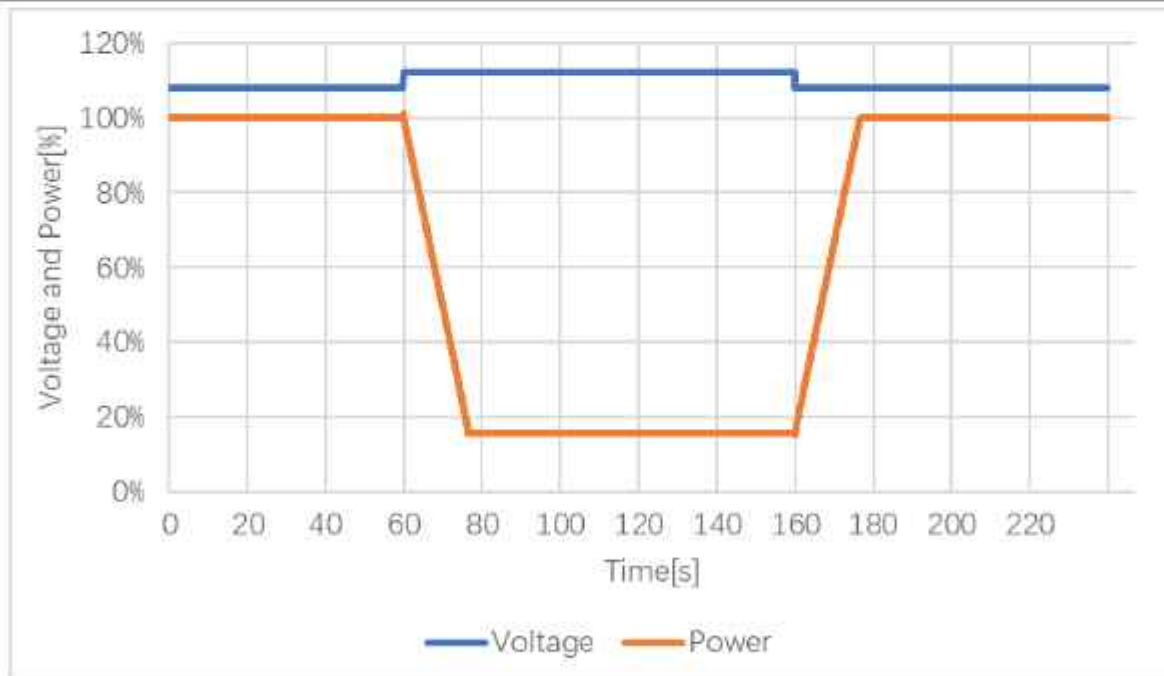
/tests and verification of the results for wind converter

Ambient temperature (°C)	21.5
Humidity (RH %)	70.0
Input voltage	780V (typical value specified by the manufacturer)

Test for static generators:

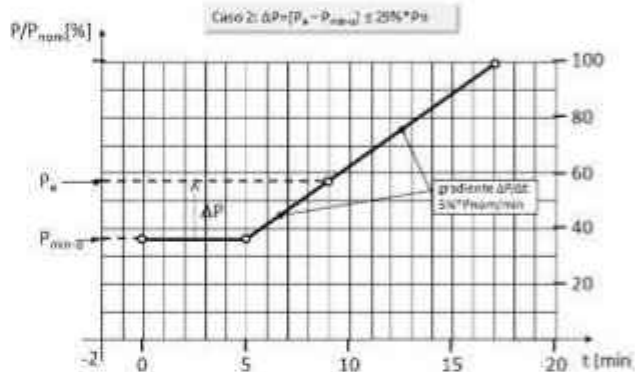
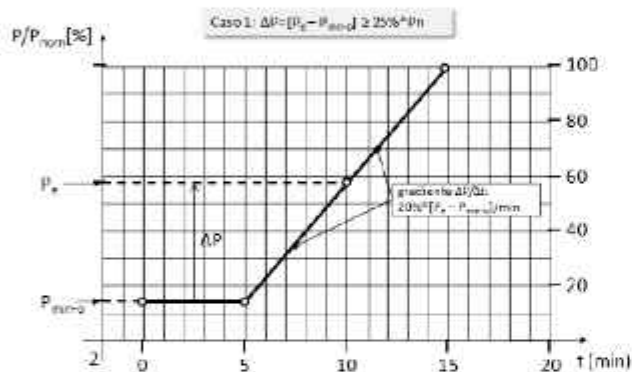
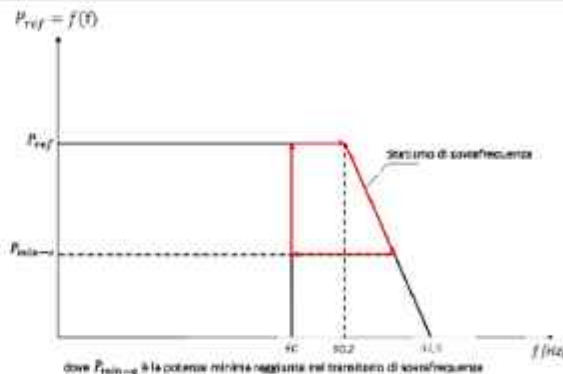
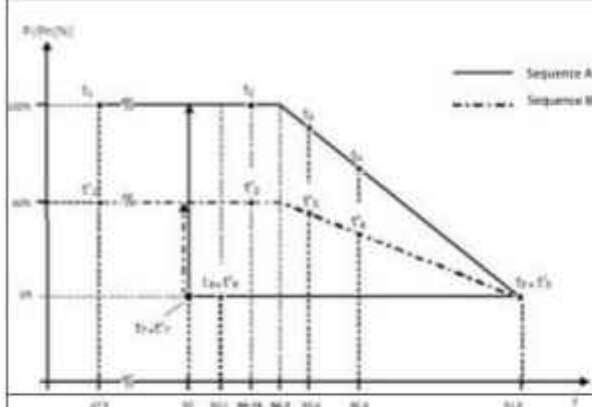
Step #	Set voltage vaule [V/Vn]	Voltage [p.u]	Measured power values [W]	Measured power bin [%]	Limit	RESULT
1	1.08	1.08	110072.3	100.06	--	PASS
2	1.12	1.12	19577.2	17.80	P < 20%Pn	PASS
3	1.08	1.08	110095.5	100.08	--	PASS

Graph



N,7,2 Limitazione automatica per transitori di sovrافrequenza originatisi sulla rete

/ Active power regulation in coincidence with transitory on the transmission grid



Standard requirements:

Ramp So: 2% ÷ 5% (default value: 2,6%)

Sampling:

Average values on 200ms

Metodi di prova alternativi

/Alternative methods

- ☒ N,7,2,a) Prove a piena potenza su rete simulata
/full power test with grid simulator
- ☐ N,7,2,b) Su rete con modifica dei parametri di controllo
/test with generator connect to grid and system control parameter changes,
- ☐ N,7,2,c) Prova sul solo sistema di controllo
/test on system control,
- ☐ N,7,2,d) Con generatore connesso alla rete
/test with generator connect to grid,

Ambient temperature (°C)

24

Humidity (RH %)

70

Input voltage

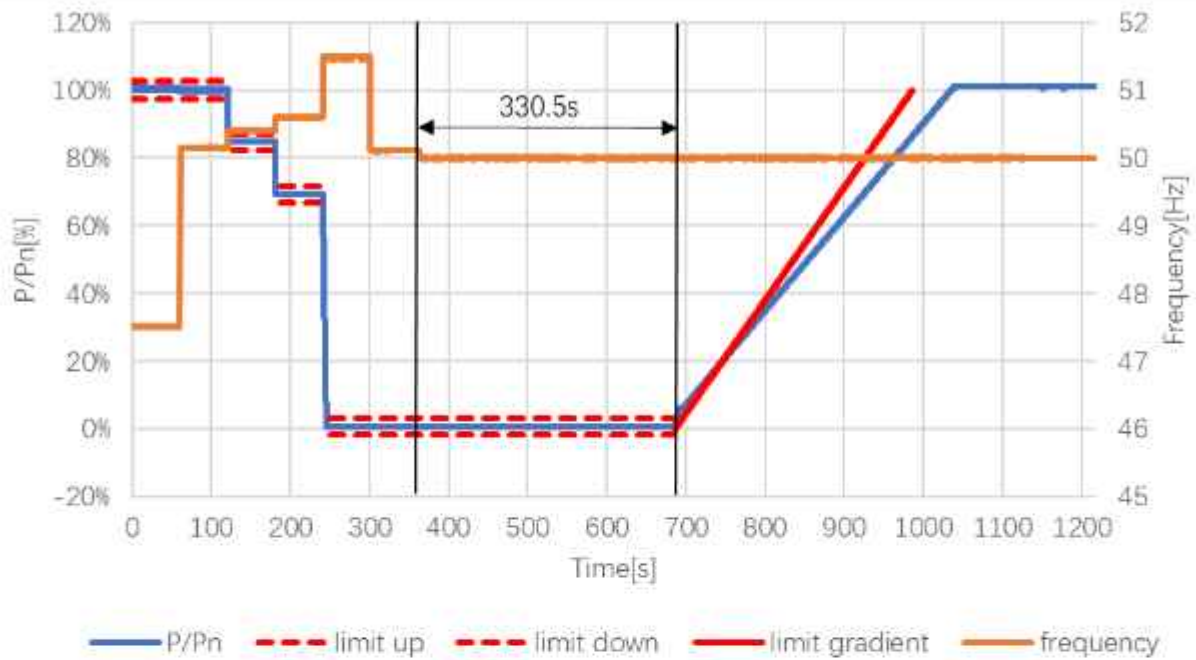
780V (typical value specified by the manufacturer)

Deviation (alternative) for wind generator (FC e DFIG) :

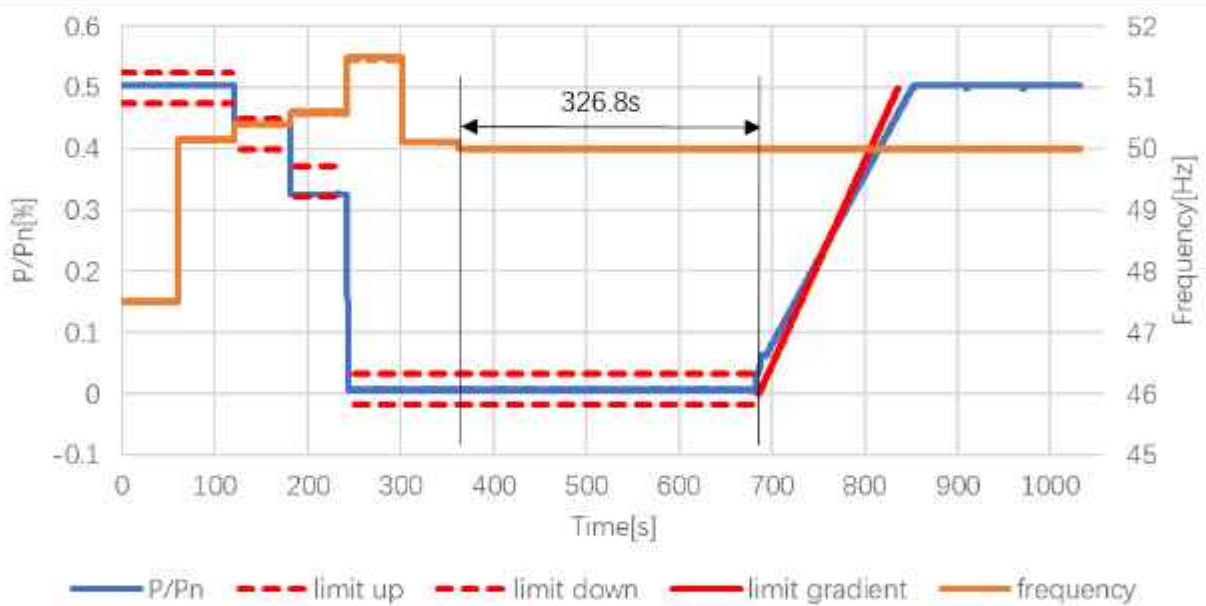
Test performed according: FGW-TR3 - § 4,2,3

Sequence A						
Step #	Set output power [%]	frequency [Hz] [± 10 mHz]	Actual power values [W(%Pn)]	Expected power value [W(%Pn)]	ΔP	Limit
t1	100	47,51	100.58	100	0.58	±2,5% Pn
t2	100	50,20	100.19	100	0.19	
t3	100	50,40	84.92	84.62	0.30	
t4	100	50,60	69.43	69.23	0.20	
t5	100	51,49	0.63	0.77	-0.14	
t6	100	50,11	0.63	0.77	-0.14	
t7	100	50,00	101.15	100	1.15	Pn
Delay to reconnection Desired (s)		Delay to reconnection Measured (s)		Increase of Active Power Desired		Increase of Active Power Measured
≥300		330.5		Between 20% * [Pmem-Pmin] / min and 5%Pn/min		17.24%Pn/min
Sequence B						
Step #	Set output power [%]	frequency [Hz] [± 10 mHz]	Actual power values [W(%Pn)]	Expected power value [W(%Pn)]	ΔP	Limit
t1	50	47,51	50.31	50	0.31	±2,5% Pn
t2	50	50,20	50.31	50	0.31	
t3	50	50,40	44.02	42.31	1.71	
t4	50	50,60	32.60	34.61	-2.01	
t5	50	51,49	0.63	0.39	0.24	
t6	50	50,11	0.63	0.39	0.24	
t7	50	50,00	50.30	50	0.30	50%Pn
Delay to reconnection Desired (s)		Delay to reconnection Measured (s)		Decrease of Active Power Desired		Increase of Active Power Measured
≥300		326.8		Between 20% * [Pmem-Pmin] / min and 5%Pn/min		18.05%Pn/min

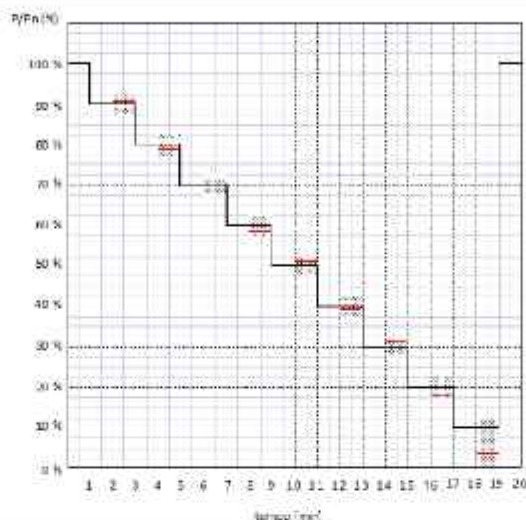
Graph of Sequence A,: Active power output = 100% P_{nom}



Graph of Sequence B,: Active power output $\geq 50\% P_{nom}$



N.7,4 Limitazione su comando esterno proveniente dal Distributore, e/o in logica centralizzata
Active power limitation in coincidence with external command coming from the Electricity Distributor



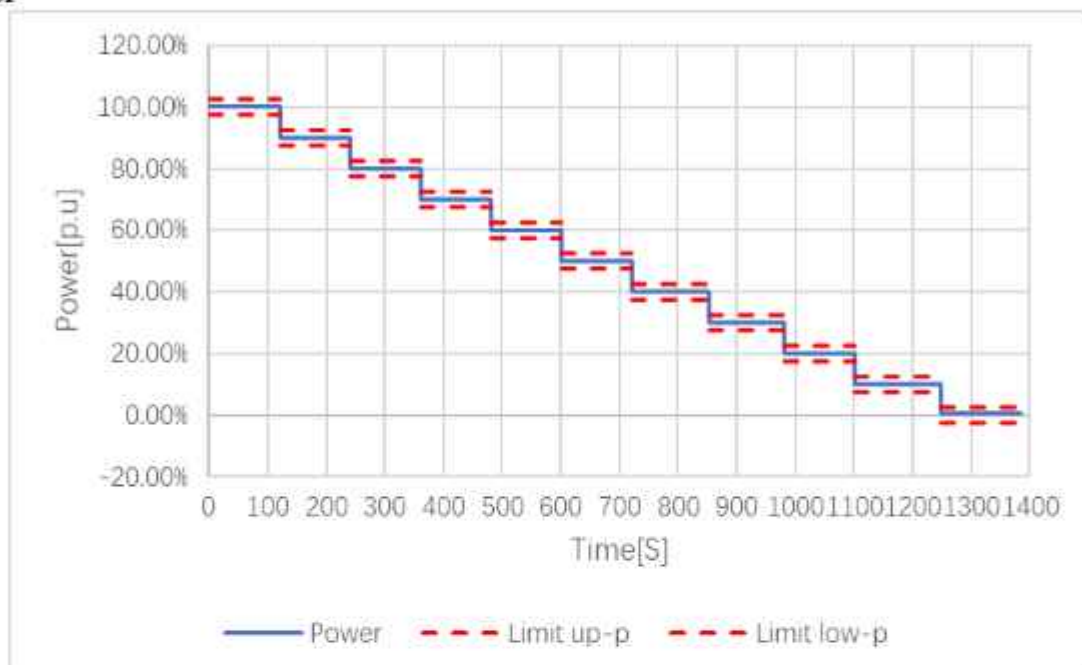
Ambient temperature (°C)	24
Humidity (RH %)	73
Input voltage	780V (typical value specified by the manufacturer)

Deviation (alternative) for wind generator (FC e DFIG) :

Test performed according: IEC 61400-21 Ed. 2 - § 6,6,3 and § 7,7,3,

Output Power %	P measured (KW)	P measured (%)	Deviation P/Pn (%)	Limit(%Pn)
100	109.95	99.95	-0.05	--
90	99.17	90.15	0.15	± 2.5
80	88.23	80.21	0.21	± 2.5
70	77.04	70.04	0.04	± 2.5
60	66.25	60.23	0.23	± 2.5
50	55.12	50.11	0.11	± 2.5
40	43.99	39.99	-0.01	± 2.5
30	33.22	30.20	0.20	± 2.5
20	22.04	20.04	0.04	± 2.5
10	11.28	10.25	0.25	± 2.5
0	0.24	0.22	0.22	--

Grafico della limitazione della potenza attiva in risposta a comando esterno
/ Graph active power limitation in coincidence with external command coming from the Electricity Distributor



N,7,4,1 Verifica del tempo di assestamento ad un comando di riduzione di potenza

/settling time verification after a power limitation command,

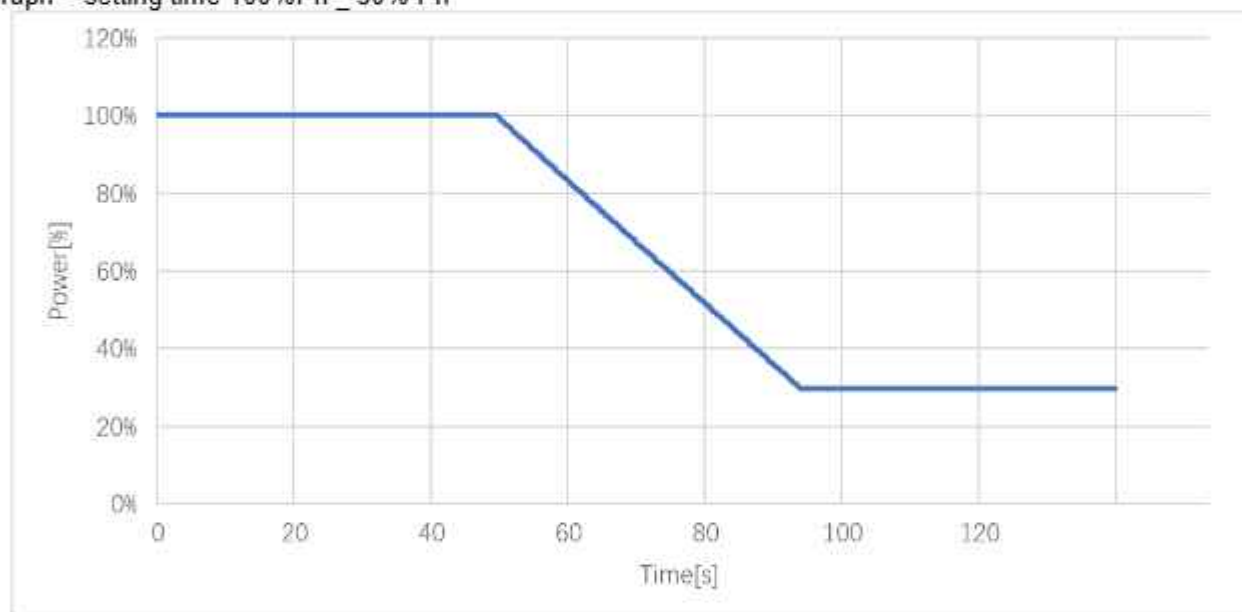
Set up time; P = 100% P_n -> 30 %P_n

Measured active power [W]:	30% $\pm$ 5%P _n
Settling time [s]:	44.6
Limit setting time:	≤ 50 s

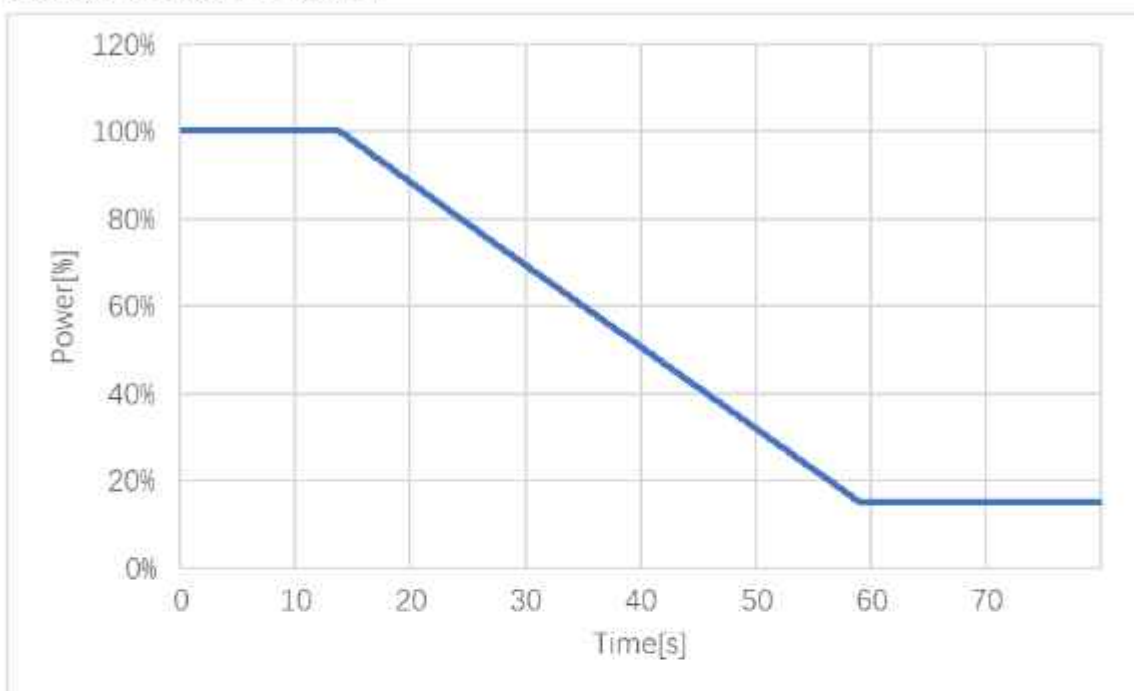
Set up time; P = 100% P_n -> 15 %P_n

Measured active power [W]:	15% $\pm$ 5%P _n
Settling time [s]:	45.0
Limit setting time:	≤ 60 s

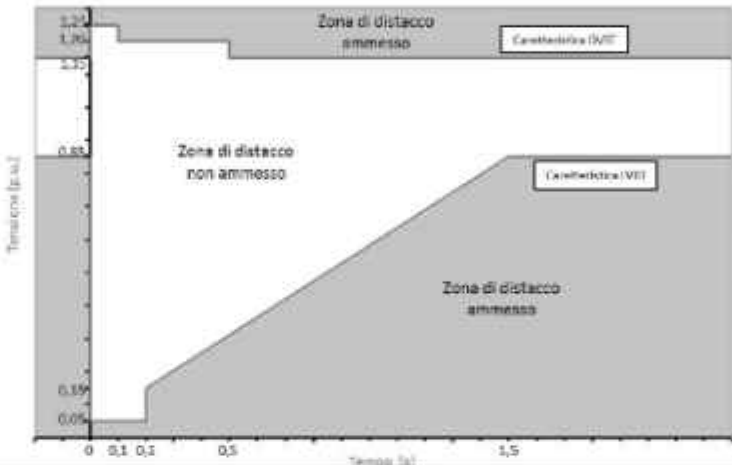
Graph – setting time 100%P_n _ 30% P_n



Graph – setting time 100%Pn _ 15% Pn



N, 8 VFRT Capability

VFRT behavior: v-t characteristic	N,8,1 LVRT – modalità di esecuzione e registrazione delle prove per i generatori statici /LVRT - Test procedure for static converter									
	N,8,5 OVRT – modalità di esecuzione e registrazione delle prove per i generatori statici /OVRT - Test procedure for static converter									
	☒ Undervoltage : LVRT					☒ Overvoltage : OVRT				
										
Ambient temperature (°C)	25.4									
Humidity (RH %)	65									
Input voltage	780V (typical value specified by the manufacturer)									
Undervoltage : LVRT										
Output power: 22 KW	Limits: from 10 % to 30% Pnom.									
	R	S	T	R	S	T	Duration	Recovery time	Limits of recovery time	
	U/U _{nom}	U/U _{nom}	U/U _{nom}	φ1	φ2	φ3	[ms]	[ms]	[ms]	
1s - guasto simmetrico trifase /three-phase symmetric fault	0.050	0.050	0.050	0°	-120°	120°	200±20	240	<400	
1a - guasto asimmetrico bifase / asymmetric two-phase fault	0.862	0.861	0.050	27°	-147°	120°	200±20	223	<400	
2s - guasto simmetrico trifase /three-phase symmetric fault	0.249	0.251	0.251	0°	-120°	120°	400±20	223	<400	
2a - guasto asimmetrico bifase / asymmetric two-phase fault	0.881	0.882	0.250	22°	-142°	120°	400±20	232	<400	
3s - guasto simmetrico trifase /three-phase symmetric fault	0.501	0.500	0.501	0°	-120°	120°	850±20	220	<400	
3a - guasto asimmetrico bifase / asymmetric two-phase fault	0.901	0.901	0.501	14°	-134°	120°	850±20	236	<400	
4s - guasto simmetrico trifase /three-phase symmetric fault	0.751	0.751	0.751	0°	-120°	120°	1300±20	219	<400	
4a - guasto asimmetrico bifase / asymmetric two-phase fault	0.942	0.941	0.751	7°	-127°	120°	1300±20	232	<400	
Condition before and after the failure	1	1	1	0°	-120°	120°	—	—	—	

Graph of LVRT test one

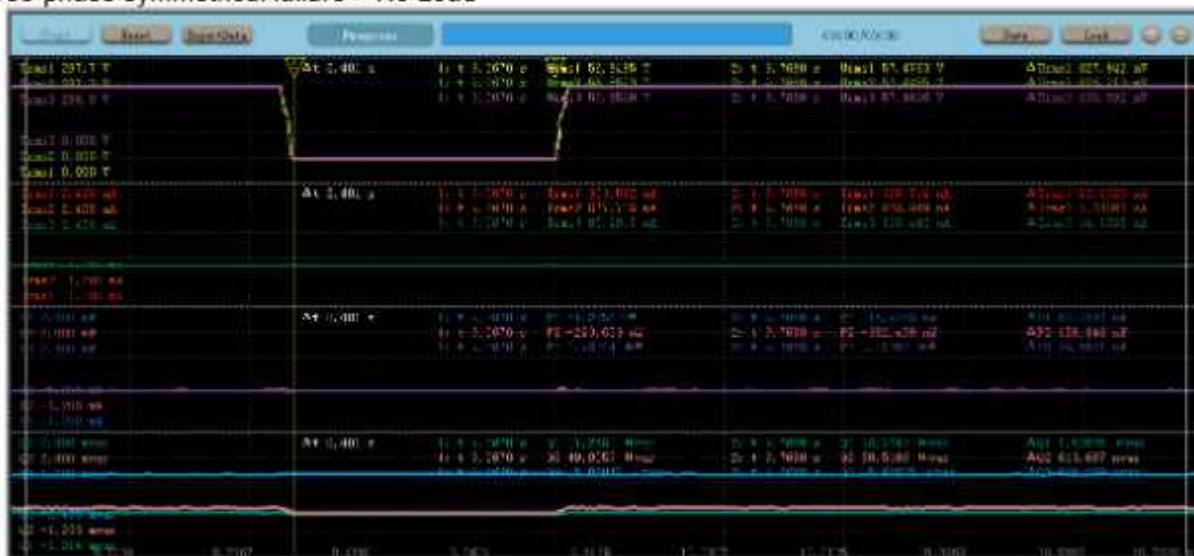
1s - three-phase symmetrical fault - No load



1a - two-phase asymmetric failure - No load



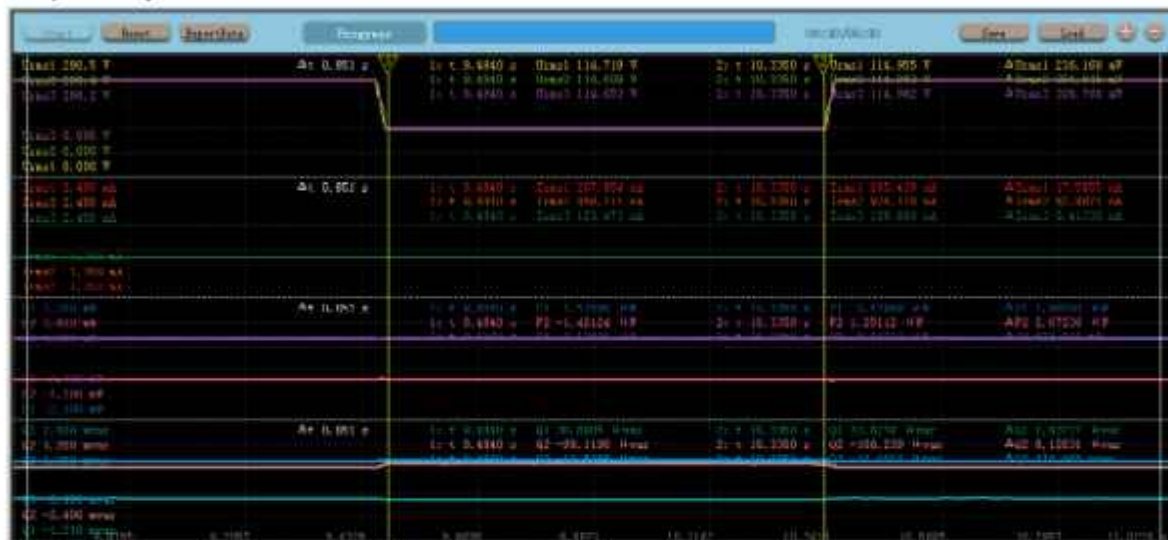
2s - three-phase symmetrical failure – No Load



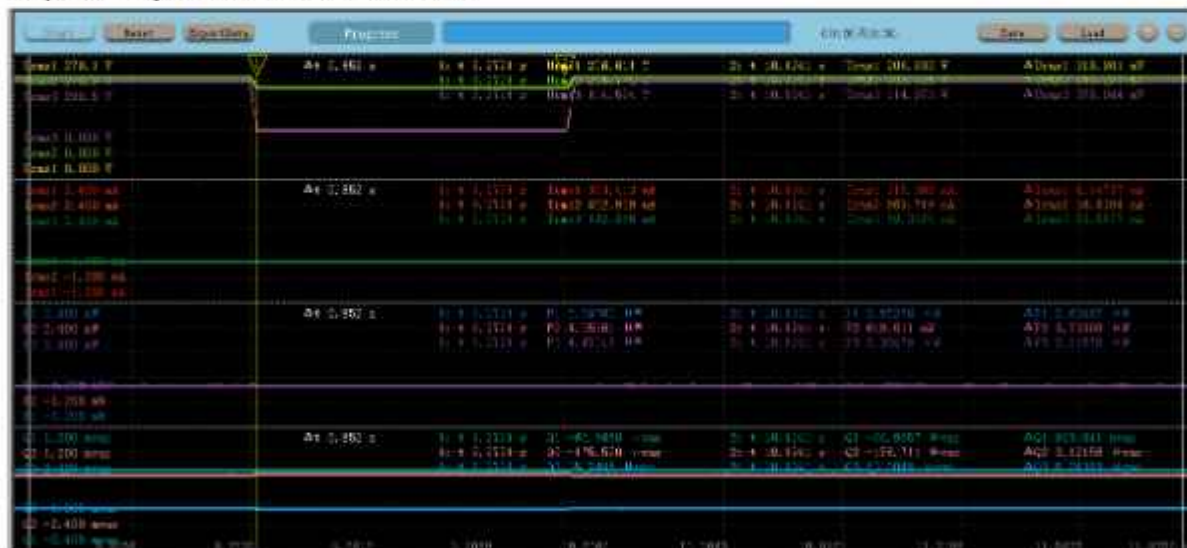
2a- two-phase asymmetric failure – No Load



3s - three-phase symmetrical failure – No Load



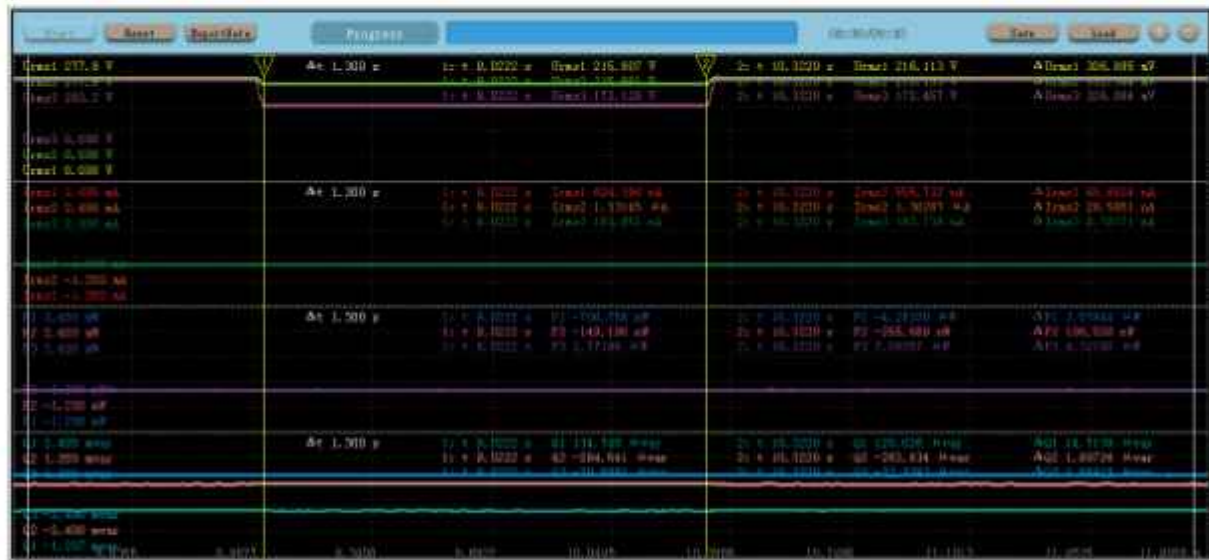
3a - two-phase asymmetric failure – No Load



4s - three-phase symmetrical failure – No Load



4a - two-phase asymmetric failure – No Load



Graph of LVRT test one

1s - three-phase symmetrical fault



During dip

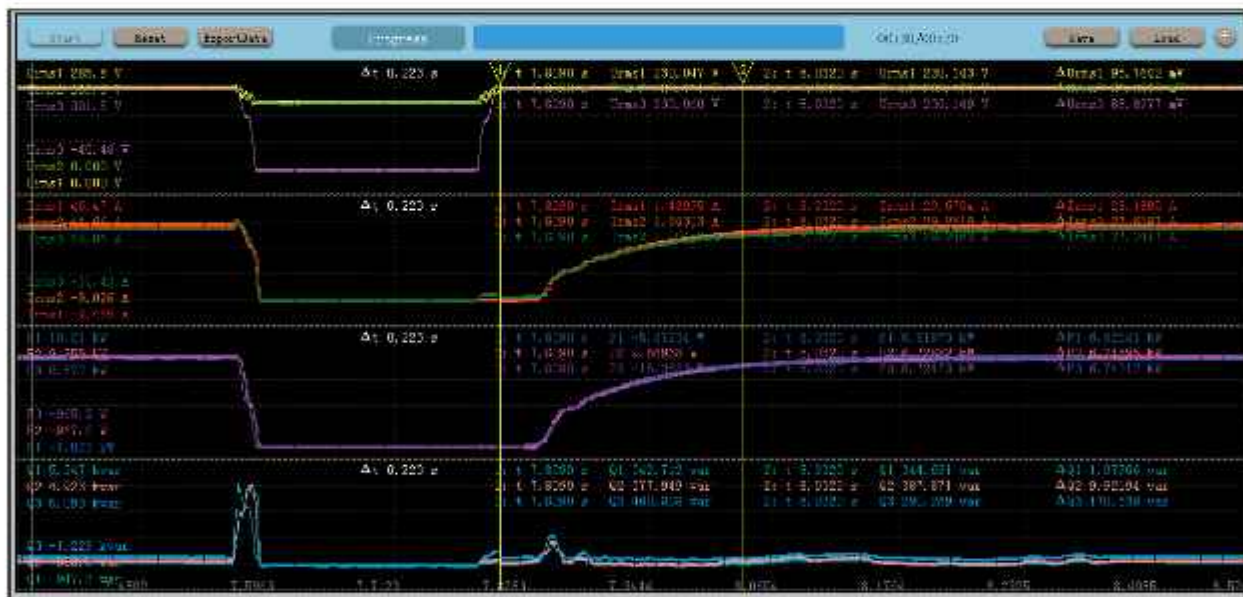


After dip

1a - two-phase asymmetric failure



During dip



After dip

2s - three-phase symmetrical failure



2a- two-phase asymmetric failure



3s - three-phase symmetrical failure



3a - two-phase asymmetric failure



The screenshot displays a multi-channel oscilloscope interface with the following data:

- Top Panel:**
 - Channel 1: V_{gs} (Gate Voltage) with a peak of 20.1 V.
 - Channel 2: V_{ds} (Drain Voltage) with a peak of 112.1 V.
 - Channel 3: V_{gs} (Gate Voltage) with a peak of 20.1 V.
 - Channel 4: V_{ds} (Drain Voltage) with a peak of 112.1 V.
- Middle Panel:**
 - Channel 1: I_d (Drain Current) with a peak of 1.0 A.
 - Channel 2: I_g (Gate Current) with a peak of 1.0 A.
 - Channel 3: I_d (Drain Current) with a peak of 1.0 A.
 - Channel 4: I_g (Gate Current) with a peak of 1.0 A.
- Bottom Panel:**
 - Channel 1: V_{gs} (Gate Voltage) with a peak of 20.1 V.
 - Channel 2: V_{ds} (Drain Voltage) with a peak of 112.1 V.
 - Channel 3: V_{gs} (Gate Voltage) with a peak of 20.1 V.
 - Channel 4: V_{ds} (Drain Voltage) with a peak of 112.1 V.

The screenshot displays a multi-channel oscilloscope measurement of a power MOSFET circuit. The top trace (blue) shows the gate voltage, which transitions from 0V to 12V. The second trace (red) shows the drain current, which rises from 0A to approximately 10A during the switching transient. The third trace (green) shows the drain-source voltage, which drops from approximately 100V to 0V during the switching transient. The bottom trace (yellow) shows the MOSFET junction temperature, which rises from approximately 25°C to approximately 100°C during the switching transient. The oscilloscope interface shows various settings and a time scale of 100ns.

After dip

4a - two-phase asymmetric failure



LVRT									
Output power: 110KW	Limits: >90% P _{nom}								
	R	S	T	R	S	T	Duration	Recovery time	Limits of recovery time
	U/U _{nom}	U/U _{nom}	U/U _{nom}	φ1	φ2	φ3	[ms]	[ms]	[ms]
1s - guasto simmetrico trifase /three-phase symmetric fault	0.050	0.050	0.050	0 °	-120 °	120 °	200±20	285	<400
1a - guasto asimmetrico bifase / asymmetric two-phase fault	0.866	0.866	0.050	27 °	-147 °	120 °	200±20	274	<400
2s - guasto simmetrico trifase /three-phase symmetric fault	0.250	0.250	0.250	0 °	-120 °	120 °	400±20	269	<400
2a - guasto asimmetrico bifase / asymmetric two-phase fault	0.881	0.880	0.251	22 °	-142 °	120 °	400±20	256	<400
3s - guasto simmetrico trifase /three-phase symmetric fault	0.500	0.501	0.501	0 °	-120 °	120 °	850±20	259	<400
3a - guasto asimmetrico bifase / asymmetric two-phase fault	0.900	0.902	0.505	14 °	-134 °	120 °	850±20	241	<400
4s - guasto simmetrico trifase /three-phase symmetric fault	0.751	0.751	0.750	0 °	-120 °	120 °	1300±20	238	<400
4a - guasto asimmetrico bifase / asymmetric two-phase fault	0.942	0.940	0.751	7 °	-127 °	120 °	1300±20	247	<400
Condition before and after the failure	1	1	1	0 °	-120 °	120 °	--	--	--

Graph of LVRT test one

1s - three-phase symmetrical fault



During dip



After dip

1a - two-phase asymmetric failure



2s - three-phase symmetrical failure



During dip



After dip

2a- two-phase asymmetric failure



During dip



After dip

3s - three-phase symmetrical failure



During dip



After dip

3a - two-phase asymmetric failure



During dip



After dip

4s - three-phase symmetrical failure



During dip



After dip

4a - two-phase asymmetric failure



Overvoltage : OVRT									
Output power: 22 KW			Limits: from 10 % to 30% Pnom,						
	R	S	T	R	S	T	Duration	Recovery time	Limits of recovery time
	U/U _{nom}	U/U _{nom}	U/U _{nom}	φ1	φ2	φ3	[ms]	[ms]	[ms]
5s - guasto simmetrico trifase /three-phase symmetric fault	1,25	1,25	1,25	0°	-120°	120°	100±20	200	<400
6s - guasto simmetrico trifase /three-phase symmetric fault	1,20	1,20	1,20	0°	-120°	120°	500±20	215	<400
Condition before and after the failure	1	1	1	0°	-120°	120°	--	--	--

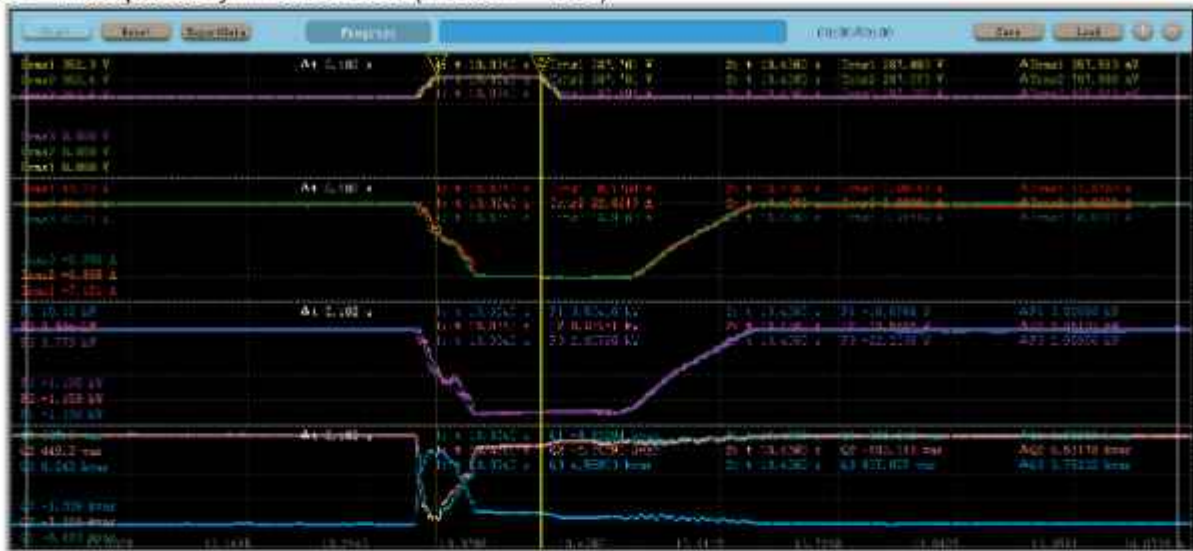
Test 5s – three-phase symmetrical fault – No Load



Test 6s – three-phase symmetrical fault – No Load



Test 5s – three-phase symmetrical fault (V/Vnom = 1.25)



During through



Power recovery

Test 6s – three-phase symmetrical fault (V/Vnom = 1.20)



Overvoltage : OVRT

Output power: 110 KW	Limits: >90% Pnom,								
	R	S	T	R	S	T	Duration	Recovery time	Limits of recovery time
	U/U _{nom}	U/U _{nom}	U/U _{nom}	φ1	φ2	φ3	[ms]	[ms]	[ms]
5s - guasto simmetrico trifase /three-phase symmetric fault	1,25	1,25	1,25	0°	-120°	120°	100	366	<400
6s - guasto simmetrico trifase /three-phase symmetric fault	1,20	1,20	1,20	0°	-120°	120°	500	359	<400
Condition before and after the failure	1	1	1	0°	-120°	120°	—	—	—

Test 5s – three-phase symmetrical fault (V/V_{nom} = 1,25)



During through



Power recovery

Test 6s – three-phase symmetrical fault (V/Vnom = 1,20)



N,9 Check of the insensibility to the re-closures when phases are in discordance

Testing mode:

☒ **N,9,1** - Test on simulated grid

N,9,2 - Test on distribution grid through coupler transformer

Ambient temperature (°C) : 23

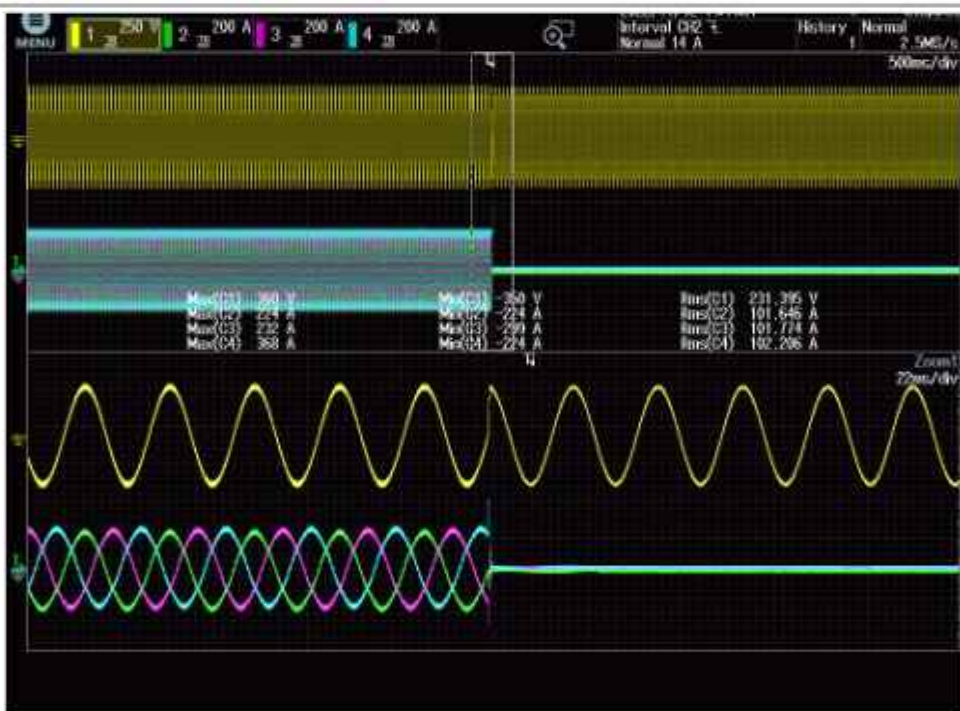
Humidity (RH %) : 71

Input voltage : 780V (typical value specified by the manufacturer)

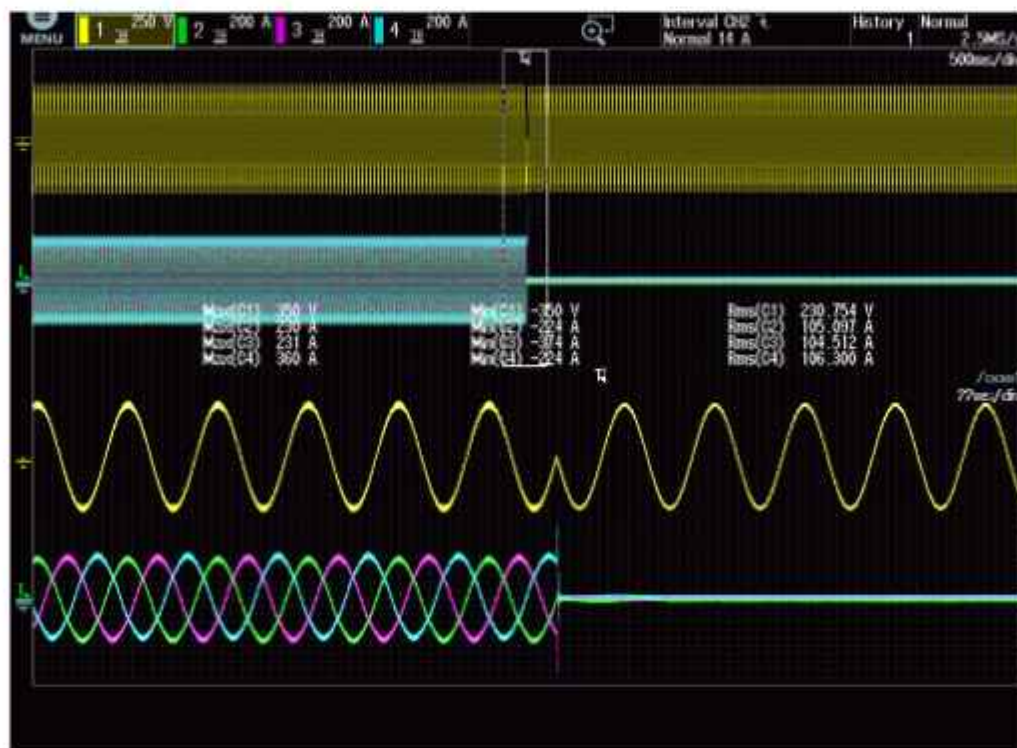
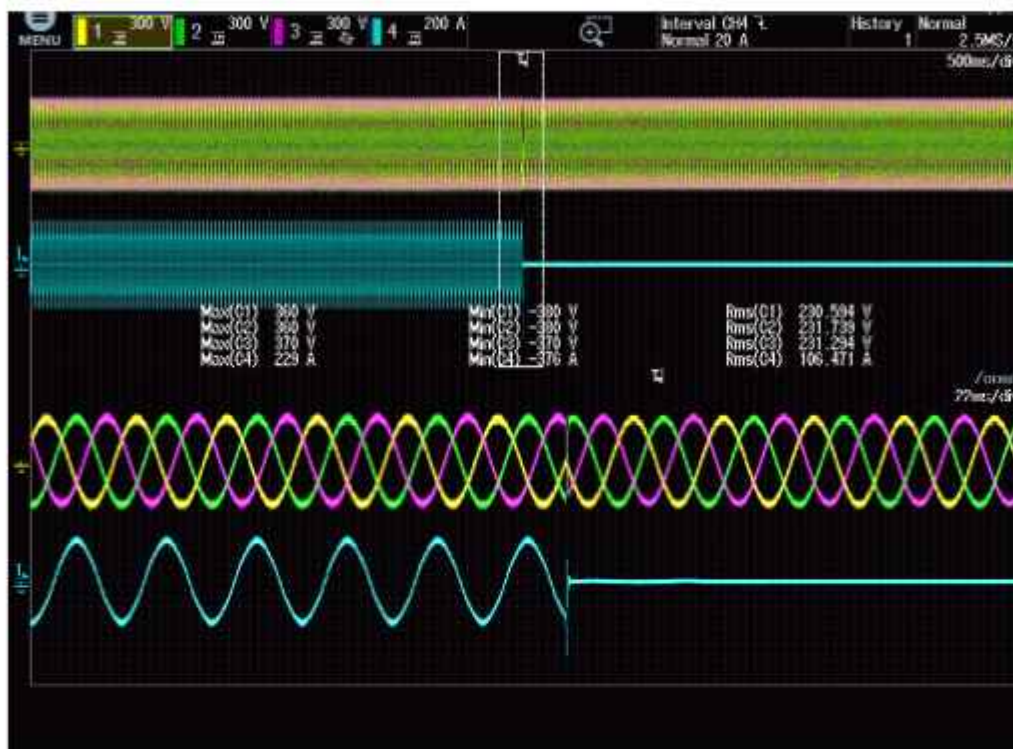
Test:

Setoff	Angle before the setoff	Angle after the setoff	Current at 20 ms before to at least 200 ms after the setoff	Result
90°	0°	+90°	L1: 101.64A L2: 101.77A L3: 102.21A	No damage Inverter disconnected
180°	0°	+180°	L1: 105.09A L2: 104.51A L3: 106.30A	No damage Inverter disconnected

TEST#1: 90° phase displacement



TEST#2: 180° phase displacement



Appendix 1: ISO 9001 certificate



Certificate of Registration

质量管理体系 – ISO 9001:2015

兹证明:

深圳市英威腾电气股份有限公司光明分公司
91440300MA5F0H760L
中国
广东省
深圳市
光明区马田街道
薯田埔社区科杰四路
英威腾光明科技大厦A座
邮编: 518106

Shenzhen INVT Electric Co., Ltd.
Guangming Branch
Building A
INVT Guangming Technology Building
Kejie Fourth Road, Shutianpu Community,
Matian Street
Guangming District
Shenzhen
Guangdong
518106
China

持有证书:

FM 741214

并运行符合 ISO 9001:2015 要求的质量管理体系。认证范围如下:

变频器的设计、销售和服务。不间断电源、光伏逆变器、电动汽车电控产品和汽车电源转换器的制造。

The design, sales and services of inverter. The manufacture of uninterruptible power supply, PV (photovoltaic) inverter, electric control products for electric automobile and power converters for automobile.

BSI代表:


Chris Cheung, 亚太地区 合规风险主管

首次发证日期: 2009-01-25

生效日期: 2021-01-25

最新发证日期: 2021-01-15

有效期至: 2024-01-24

Page: 1 of 3



...making excellence a habit.™

此证书以电子形式发放,所有数据均受BIS认证系统的约束。

可以 [点击](#) 查看电子证书的有效期。

此证书的详细信息请访问 <http://www.bsi-global.com/CertDirectory> 或致电 +86 10 8587 3000。您也可以访问国家认证认可监督管理委员会官方网站 (<http://www.cnca.gov.cn>) 查看。

关于证书范围, ISO 9001:2015 要求的适用性附录一说明请向BSI。

该证书的有效性依赖于获证企业保持符合认证标准的要求。

此证书的有效性不受本时点影响。

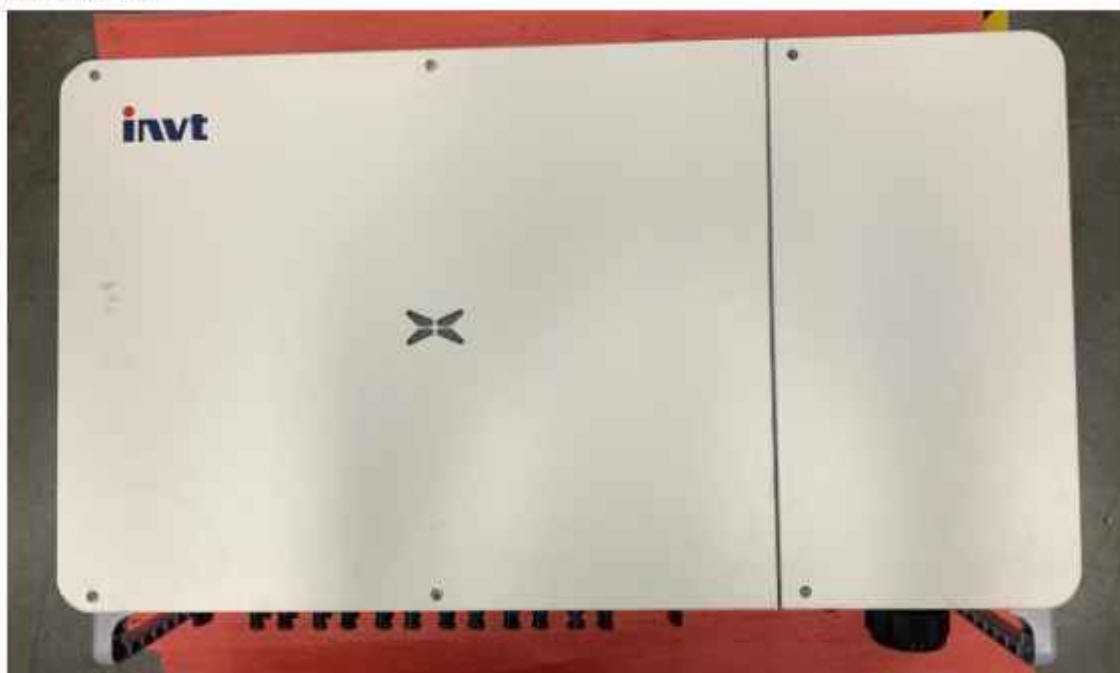
BSI 中国代表处地址: BSI, Xitiansi Court, Davy Avenue, Knowledge, Milton Keynes MK5 8PP, 电话: +44 345 080 9000

BSI 英国有限公司, 注册地: 英国, 注册号: 7605321, 地址: 389 Chiswick High Road, London W4 4AL, UK

BSI 中国代表处地址: 北京, 注册地址: 北京市建国门外大街24号东座C2008室, 邮编: 100004 电话: +86 10 85873000

BSI 中国代表处。

Appendix 2: Photos



Overall view 1



Overview 2



Overview 3



Side view



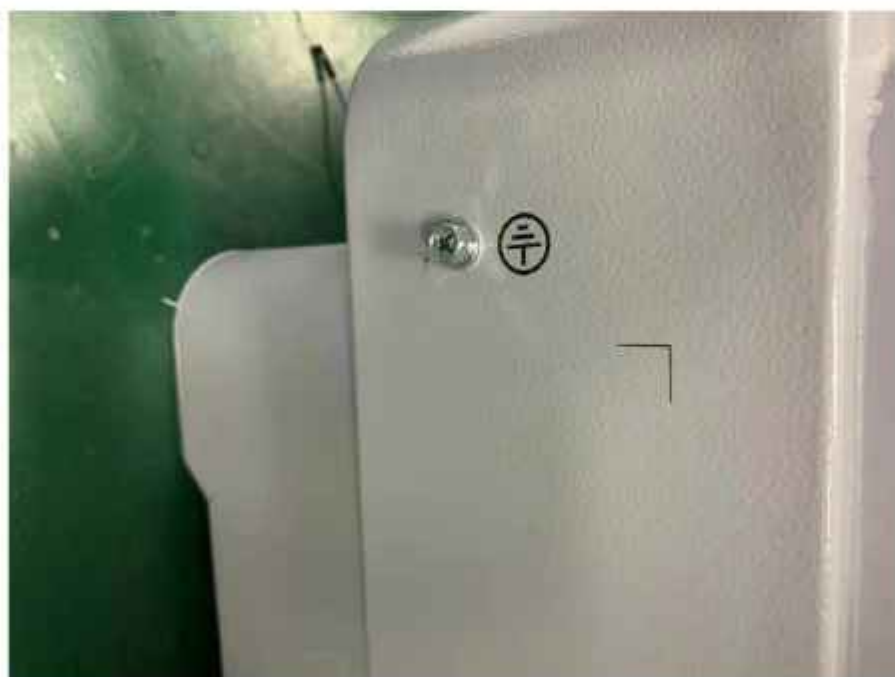
Connection view(for 9 strings)



Connection view (for 10 strings)



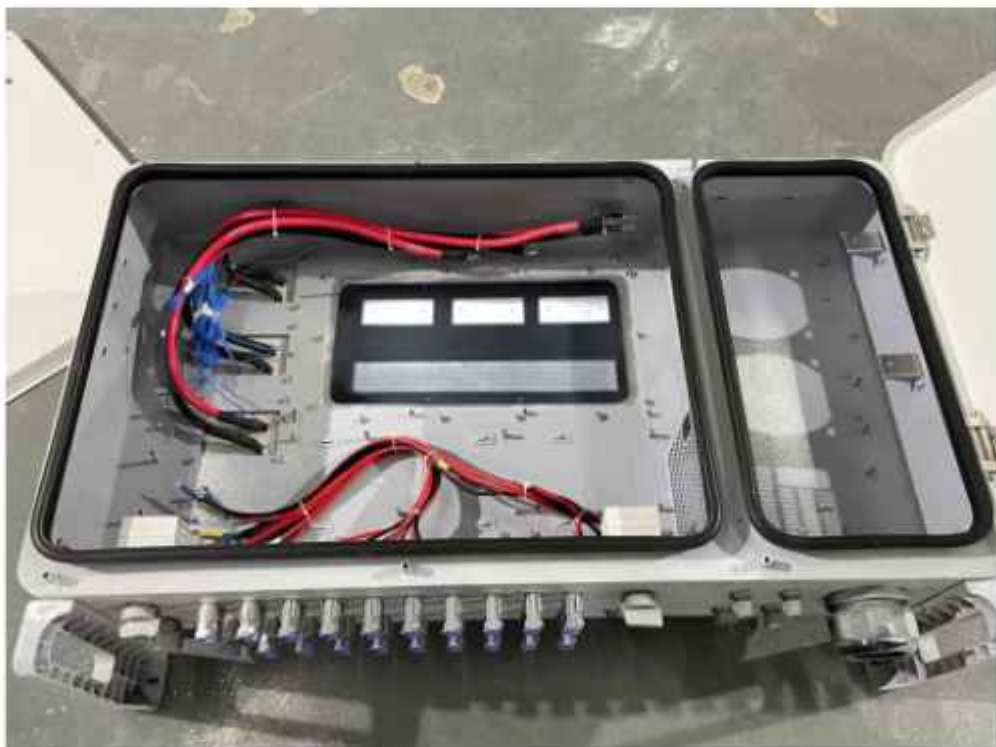
Connection view (for 12 strings)



Grounded view



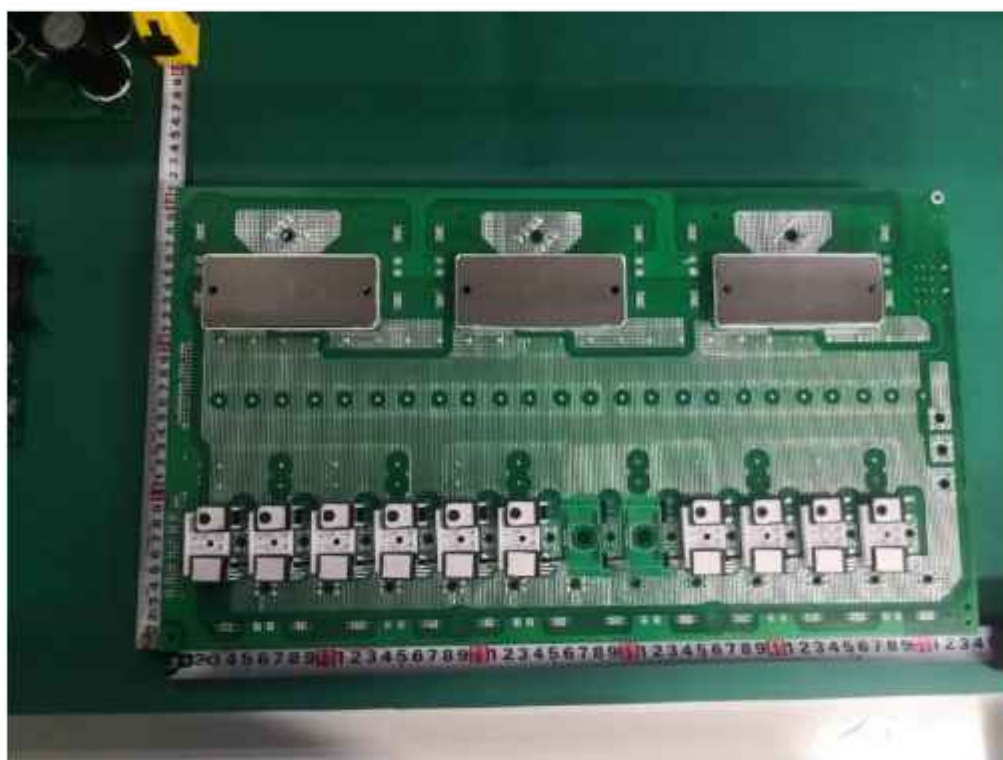
Internal view



Internal view (removed PCB board)



Main board view (Components side)



Main board view (Soldered side)

Appendix 3: Equipment

Asset	Description	Manufacturer	Model	Cal Date	Cal Due
SA200-16	Precision Power Analyzer	YOKOGAWA	WT3000	17 Aug 2022	16 Aug 2023
SA200-02	RLC load	Qunling	ACLT-4830H	/	/
SA200-52	AC power source	Chroma	61860	/	/
SA016-17	Programmable Temperature & Humidity Test Chambe	DONGZHIXU	DSW1040	15 Jul 2022	14 Jul 2023
SA002-16	Impulse tester	Anwei	MegaPulse 10*700-7	09 Oct 2022	08 Oct 2023
SA200-17	Withstanding Voltage Tester	Kikusui	TOS5052	18 Nov 2022	17 Nov 2023
SA050-33	Scope Corder	YOKOGAWA	DL 850E	06 Jan 2022	05 Jan 2023
SA200-18	TopCon series DC power supply (PV Simulator)	REGATRON	TC.P.32.1000.400. PV.HMI	06 Aug 2022	05 Aug 2023

(End of Report)