



RESIDENTIAL ESS SOLUTION

VT-51201-B



Easy Operation & Maintenance

Battery module auto networking (No DIP switches)
Support remotely monitoring and upgrade the firmware
Support external power supply activation, prevents battery suspension



Safer

(LFP) Battery : Safe, long-lasting, high-efficiency. Built-in circuit breaker, Intelligent BMS. Eco-friendly materials, non-toxic, pollution-free module.



Flexible Application

Easy to expand, Max. 64 units in parallel
(327kWh / 655kWh)
Suited to residential and commercial applications for increasing the self-consumption ratio



Reliable

Support IC charge and discharge,
Wide temp range : -20 °C to 55 °C

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Model		VT-51201-B
Battery Chemistry		LiFePO ₄
Nominal Capacity ^[1]		100 Ah
Nominal Voltage		51.2V
Operating Voltage		44.8 V ~ 57.6 V
Nominal Energy ^[1]		5.12 kWh
Cell Configuration		1P16S
Scalability ^[2]		Max. 64 pcs pack (327kWh) in parallel
Charge/Discharge Current ^[3]	Max. Continuous	100 A
	Peak	200 A (10 sec)
Other Parameter		
Recommend Depth of Discharge		90% DoD
Dimension (W × D × H, mm)		440 × 540 × 133
Weight Approximate		44 kg
Master LED Indicator		5LED (SOC : 20% ~ SOC100%) 3LED (working, alarming, protecting)
IP Rating of Enclosure		IP20
Working Temperature		Charge : 0 ~ 55°C, Discharge : -20°C ~ 55°C
Storage Temperature		0 ~ 35°C
Relative Humidity		95%
Altitude		≤2000 m
Cycle Life		≥6000 (25°C±2°C, 0.5C / 0.5C, 90%DOD, 60%EOL)
Installation		InstWall-Mounted, Floor-Mounted (Stacked) , Rack-Mounted (cabinet depth ≥600mm) allation
Communication Port		CAN2.0, RS485
Certification		UN38.3, MSDS, IEC 61000, IEC 62619, CEI 0-21
Color		VT-51201-B: Black
Warranty		10 Years

[1] Test conditions: 25C+2C, at beginning of life, 0.5C charge & 0.5C discharge,100% DOD.

[2] Max. 32 pcs without external CAN-Box.

[3] The current is affected by temperature and SOC.

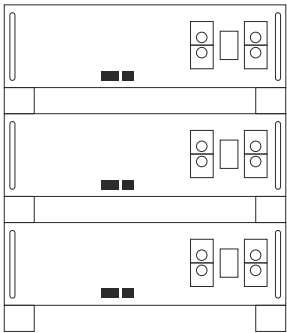
Typical Application Scenarios

Product Expansion

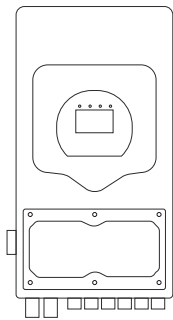
Battery backup time

	VT-51201-B		
Inverter	2h	3h	4h
SUN-6K-SG05LP1-EU-AM2-P	3 units	4 units	5 units
SUN-6K-SG05LP1-EU-AM2-P	3 units	4 units	5 units
SUN-6K-SG05LP1-EU-AM2-P	3 units	4 units	5 units

VT-51201-B



SUN-6K-SG05LP1-EU-AM2-P



2hours

