



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



Flexible Application

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



Safer

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



Reliable

Support 1C 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		5 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.

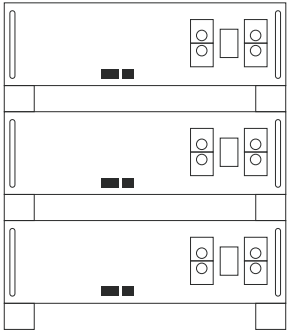
Typical Application Scenarios

Product Expansion

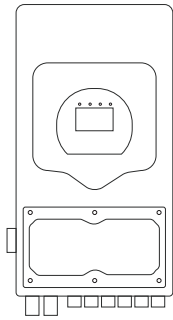
Battery backup time

	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

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



2hours

