





Easy Operation & Maintenance

Battery module auto networking (No DIP switchs) 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 $^\circ$ to 55 $^\circ$

RESIDENTIAL ESS SOLUTION



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.

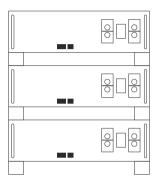
 $[\]cbeck{[3]}$ The current is affected by temperature and SOC.

Typical Application Scenarios

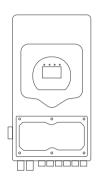
Product Expansion

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

