V-TAC
Meaningful Innovation.

RESIDENTIAL ESS SOLUTION

VT-51201-W

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℃ to 55℃

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Model	VT-51201-W
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-W: White
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.
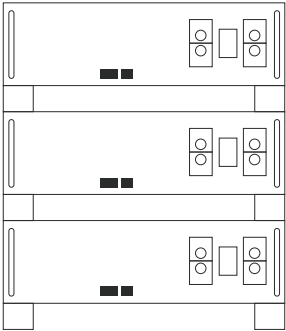
[3] The current is affected by temperature and SOC.

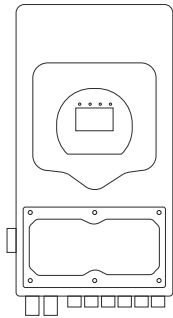# Typical Application Scenarios

Product Expansion

Battery backup time	VT-51201-W		
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-W

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

2hours

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