

SMART HOME BATTERY

VE51100RS Lithium Battery



FEATURES AND ADVANTAGES



Self-designed BMS international
design certification



Long cyclic life-6000 cycles
15 years design life



Most safety LiFePO4 as
cathode material



High rate charge/
discharge current @ 100A



Integrated with wall-mounted and
19inch rack or cabinet installation



IP65 higher degree of protection
Easier installed outdoor

SPECIFICATION

Model	VE51100RS
Cell Cathode Chemistry	LiFePO ₄
Nominal Battery Energy (kWh)	5.12 kWh
Nominal Capacity (Ah)	100 Ah@25 °C/77 °F
Nominal Voltage (Vdc)	51.2 V
Working Voltage (Vdc)	42.0-57.6 V
Recommended Charge Voltage/@25°C (Vdc)	56.8-57.6 V
Charge Current/Max. Continuous (A)	100 A
Discharge Cut-off Voltage/@25°C (Vdc)	42.0 V
Discharge Current/Max. Continuous (A)	100 A
Depth of Discharge@25°C(%)	80% DOD
Temperature/Charge (°C)	0~55 °C/32-131 °F
Temperature/Discharge (°C)	-20~60 °C/-4-140 °F
Dimension/W*D*H (mm)	483*517*155 mm(with handles)
Dimension/W*D*H (inch)	19*20.4*6.1 inch(with handles)
Weight (kg)	45.0 kg
IP	IP65
Expansion	Up to 6 units in parallel
Communication	2*CAN/RS-485
Cooling Mode	Natural
Cycle Life	≥6000,80%DOD@25 °C/77 °F
Design Life	15+ Years@25 °C/77 °F
Installation	Wall/Floor/19 or 23 inch Cabinet/Rack
Humidity	5% ~ 95% (RH) No Condensation
Altitude (m)	<2000m
Protections	Overcharge/Overdischarge/Overtemperature/ Overcurrent/Short Circuit etc.
Compatible Inverters Brand	Deye/Voltronic/Senergy/Invnt/Megarevo/ Victron/Phocos etc.
Designed International Standard	UN38.3/IEC62619/EN61000

Note:

1. Test conditions: 100% depth of discharge (DOD), 0.2C charge & discharge at 25°C.
2. Charge/discharge derating occurs when the operating temperature from -10°C to 5 °C. & 45°C to 55°C.
3. Refer to battery warranty letter for conditional application.

