

RESIDENTIAL BATTERY

RT 5.1

Low Voltage



Features



Full Automatic Manufacturing Products



Standard 3u Rack Modular Design



100% Tested for Safety, Readability and Capacity



Precise Voltage / Temperature / Soc Detection



Top-Notch Lfp Class A Cell / Strict Capacity Grading



One Button Start / Stop and Parallel Connection

DATASHEET

Model	RT 5.1
Performance	
Cell technology	LFP (LiFePO ₄)
Battery usable energy [1]	5.12 kWh
Nominal capacity	100 Ah
Nominal voltage	51.2 V
Operating voltage	44.8 ~ 56.16 V
Max. charge and discharge current [2]	100 A
Recommend Depth of Discharge	90%
Communication	
Display	SOC status indicator, LED indicator
Communication	CAN / RS485 / RS232
General Specification	
Dimension (W×D×H)	440×130×550 mm 17.3×21.7×5.1 inch
Weight	46 kg (101.4 lbs)
Installation	Rack / Wall / Cabinet-Mounted
Operating temperature [3]	Charge: 0 to 50°C (32 to 122°F) Discharge: -15 to 50°C (5 to 122°F)
Environmental humidity	≤ 95%RH (No condensation)
Ingress protection rating	IP20
Warranty period [4]	5 years / 10years (Optional)
Scalability	Max. 15 batteries in parallel
Application	ON Grid / ON Grid + Backup / OFF grid
Compatible inverters	Refer to compatible inverter list (Compatible with major PCS brands)
Standard Compliance	
Compliance	UN38.3 / IEC62619 / IEC61000 (More available upon request)

[1] Test conditions: 100% depth of discharge (DOD), 0.2C rate charge & discharge at 25°C.

[2] There is 0.5C or 1C configurations optional in factory default.

[3] Charge/discharge derating occurs when the temperature is below 0°C or above 45°C.

[4] Please refer to the Warranty Letter for applicable conditions.