

RESIDENTIAL BATTERY

RT 5.1

Low Voltage

UN38.3



Features



Full Automatic Manufacturing Products



100% Tested for Safety, Readability and Capacity



Top-Notch LFP Class A Cell / Strict Capacity Grading



Standard 3U Rack Modular Design



Precise Voltage / Temperature / SOC Detection



One-Button Start / Stop and Parallel Connection



Scenarios



Houses



Off-grid Cabins



Small Stores



Small Offices



Small Farms

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	
Recommended 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 × 5.1 × 21.7 inch	
Weight	46 kg (101.4 lb)	
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 / 10 years (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 (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.

SYSTEM DIAGRAM

