COMMERCIAL BATTERY

RT 5.12-HX

High Voltage 20.48~61.44 kWh

UN38.3 IEC



Features

- Fully Automated Manufacturing, CCS Technique
- Top-Notch LFP Class A Cell / Strict Capacity Grading
- Plug & Play Wiring Cable, Easy Installation
- Modular Design, 20-61 kWh Flexible Configuration
- Precise Voltage / Temperature / SOC Detection
- Built-in Wi-Fi for Monitoring and Firmware Update
- LCD Display Shows Data Visually

Scenarios



Industrial Parks



Commercial Parks



Livestock Farms



Farms



Manufacturing Bases

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DATASHEET

Model	RT 5.12-H4 RT 5.12-H7	RT 5.12-H5 RT 5.12-H8	RT 5.12-H6	RT 5.12-H9 RT 5.12-H11	RT 5.12-H10 RT 5.12-H12
Performance					
Cell technology	LFP ($LiFePO_4$)				
Battery module	5.12 kWh, 51.2 V, 43 kg				
Number of modules	4	5	6	9	10
	7	8		11	12
Battery usable energy [1]	20.48 kWh	25.6 kWh	30.72 kWh	46.08 kWh	51.2 kWh
	35.84 kWh	40.96 kWh		56.32 kWh	61.44 kWh
System nominal voltage	204.8 V	256 V	307.2 V	460.8 V	512 V
	358.4 V	409.6 V		563.2 V	614.4 V
System operating voltage	179.2 ~ 230.4 V	224.0 ~ 288.0 V	268.8 ~ 345.6 V	403.2 ~ 518.4 V	448.0 ~ 576.0 V
	313.6 ~ 403.2 V	358.4 ~ 460.8 V		492.8 ~ 633.6 V	537.6 ~ 691.2 V
System Max. continuous charge and discharge current [2]	100 A				
Recommended Depth of Discharge	90 %				
Communication					
Display	LCD Display (battery operating status, SOC, alerts, etc.)				
Communication	CAN / RS485 / RS232 / Wi-Fi / LAN				
General Specification					
Dimension (W × D × H)	566 × 630 × 1652 mm			566 × 630 × 2220 mm	
	22.3 × 24.8 × 65.0 inch			22.3 × 24.8 × 87.4 inch	
Weight	250 kg (551.2 lb)	295 kg (650.4 lb)	340 kg (749.6 lb)	542.5 kg (1196.0 lb)	628.5 kg (1385.6 lb)
	385 kg (848.8 lb)	430 kg (948.0 lb)		585.5 kg (1290.8 lb)	671.5 kg (1480.4 lb)
Installation	Floor stand				
Operating temperature [3]	Charge: 0 °C to 50 °C (32 to 122 °F) Discharge: -15 °C 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. 12 modules per stack, 15 stacks in parallel				
Application	On-grid / On-grid + Backup / Off-Grid				
Compatible inverters	Refer to compatible inverter list (Compatible with major PCS brands)				
Cycle Life	6,000 cycles (25 ± 2 °C, 0.5P / 0.5P, 70 % SOH)				
Standard Compliance					
Compliance	UN 38.3 / IEC 62619 / IEC61000-6-2 / IEC61000-6-4 / IEC62477-1 (More available upon request)				
Ordering and Delivery Parts					
Parts	RT-5.12-QC-A (Battery Pack)				
	RT 5.12-H-BCU (Battery Control Unit)				
	RT-R8-A (Battery Rack)			RT-R12-A (Battery Rack)	

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

[2] Factory-configurable 0.5 C or 1 C charge/discharge rates are available.

[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.