

Commercial Battery

RT 5.12-H | High Voltage | 20.48~61.44kWh



Versatile Solutions

Meet diverse home energy needs with LFP batteries that last up to 6,000 cycles, ensuring safety and reliability.



Hassle-Free Setup

Quick-connect coupling, facilitating easy wiring, and effortless maintenance.



Flexible and Expandable

With a 5.12 kWh modular design, each cluster supports up to 12 packs, connecting up to 4 clusters for versatile energy solutions.



Smart Home

Use your smartphone to control your home energy freely.

Model	RT 5.12-H4	RT 5.12-H5	RT 5.12-H6	RT 5.12-H7	RT 5.12-H8
	RT 5.12-H9	RT 5.12-H10	RT 5.12-H11	RT 5.12-H12	

Performance

Cell technology	LFP (LiFePO4)				
Number of modules	4	5	6	7	8
	9	10	11	12	
Battery usable energy [1]	20.48 kWh	25.6 kWh	30.72 kWh	35.84 kWh	40.96 kWh
	46.08 kWh	51.2 kWh	56.32 kWh	61.44 kWh	
Nominal voltage	204.8 V	256 V	307.2 V	358.4V	409.6 V
	460.8 V	512V	563.2 V	614.4 V	
Operating voltage	179.2 - 224.64 V	224.0 - 280.80 V	268.8 - 336.96 V	313.6 - 393.12 V	358.4 - 449.28 V
	403.2 - 505.44 V	448.0 - 561.60 V	492.8 - 617.76 V	537.6 - 673.92 V	
Max.charge and discharge current [2]	100 A				

Communication

Display	SOC status indicator, LED indicator, LCD display
Communication	CAN / RS485 / RS232
Functions	Remote upgrade, EMS, Real-time monitoring of local data

General Specification

Dimension (WxDxH)	566×630×2220 mm				
	22.3×24.8×87.4 inch				
Weight	327.5 kg (722.0 lbs)	370.5 kg (816.8 lbs)	413.5 kg (911.6 lbs)	456.5 kg (1006.4 lbs)	499.5 kg (1101.2 lbs)
	542.5 kg (1196.0 lbs)	585.5 kg (1290.8 lbs)	628.5 kg (1385.6 lbs)	671.5 kg (1480.4 lbs)	
Installation	Floor stand				
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	IP 20				
Cycle life [4]	6000 Cycles or ten (10) years @ 80% DOD / 25°C / 0.5C, 70% EOL				
Scalability	Max 12 modules per stack, 4 stacks 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 / IEC62040-1 / IEC61000-6-2 / IEC61000-6-4 / IEC62477-1 (More available upon request)
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Ordering and Deliverable Part

Part	RT-5.12-QC-A
	RT 5.12-H-BCU
	RT-R12-A
	RT-DS-7
	LED/LCD display (Optional)

[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, the warranty is due whichever comes first.