

Residential Battery

CHAKRA 5.1-H12-1P1 | High Voltage | 20.48kWh~61.44kWh



Safe and Durable

The LFP battery cells offer 6,000 cycles of longevity and an IP65 rating for enhanced safety, ensuring reliable performance in any conditions.



Hassle-Free Setup

Enjoy the convenience of plug-and-play installation—no external wiring required. Automatic ID assignment makes for quick and easy setup.



Flexible and Expandable

With a 5.1 kWh modular design, each cluster supports up to 12 packs, connecting up to 4 clusters for versatile energy solutions.



Smart Home

Control your home energy effortlessly via App or Web, keeping you connected anytime, anywhere.

Datasheet

CE UN38.3 IEC  

Model	CHAKRA 5.1-H4-1P1	CHAKRA 5.1-H5-1P1	CHAKRA 5.1-H6-1P1	CHAKRA 5.1-H7-1P1	CHAKRA 5.1-H8-1P1
	CHAKRA 5.1-H9-1P1	CHAKRA 5.1-H10-1P1	CHAKRA 5.1-H11-1P1	CHAKRA 5.1-H12-1P1	

Performance

Cell technology	LFP (LiFePO ₄)				
Battery module	5.12 kWh, 51.2 V, 44 kg (97 lbs)				
Number of modules	4	5	6	7	8
	9	10	11	12	
Battery usable energy [1]	20.48 kWh	25.60 kWh	30.72 kWh	35.84 kWh	40.96 kWh
	46.08 kWh	51.20 kWh	56.32 kWh	61.44 kWh	
Nominal voltage	204.8 V	256.0 V	307.2 V	358.4V	409.6 V
	460.8 V	512.0 V	563.2 V	614.4V	
Operating voltage	179.2 - 224.64 V	224 - 280.8 V	268.8 - 336.96 V	313.6 - 393.12 V	358.4 - 449.28 V
	403.2 - 505.44 V	448 - 561.6 V	492.8 - 617.76 V	537.6 - 673.92 V	
Max.charge and discharge current [2]	50 A				

Communication

Display	SOC status indicator, LCD indicator
Communication	CAN / RS485 / RS232 / Wi-Fi

General Specification

Dimension (WxDxH)	670×370×855 mm	670×370×1010 mm	670×370×1165 mm	670×370×1320 mm	670×370×1475 mm
	26.4×14.6×33.7 inch	26.4×14.6×39.8 inch	26.4×14.6×45.9 inch	26.4×14.6×52 inch	26.4×14.6×58.1 inch
	670×370×1630 mm	670×370×1785 mm	670×370×1940 mm	670×370×2095 mm	
	26.4×14.6×64.2 inch	26.4×14.6×70.3 inch	26.4×14.6×76.4 inch	26.4×14.6×82.5 inch	
Weight	204 kg (449.7 lbs)	248 kg (546.7 lbs)	292 kg (643.7 lbs)	292 kg (643.7 lbs)	380 kg (837.8 lbs)
	424 kg (934.8 lbs)	468 kg (1031.8 lbs)	512 kg (1128.8 lbs)	556 kg (1225.8 lbs)	
Installation	Floor stand				
Operating temperature [3]	Charge : 0 to 50°C (32 to 122°F) Discharge: -20 to 50°C (-4 to 122°F)				
Environmental humidity	≤ 95%RH (No condensation)				
Ingress protection rating	IP 65				
Cycle life [4]	6000 Cycles or ten (10) years @ 80% DOD / 25°C/05C, 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 / IEC1000-6-4 / IEC62477-1 (More available upon request)
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Ordering and Deliverable Part

Part	CHAKRA 5.1-HP12-PQC1
	CHAKRA 5.1-HB12-PQC1

[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.