

RESIDENTIAL BATTERY

CHAKRA 5.1-HX-1P1

High Voltage 20.48kWh~61.44kWh

UN38.3



Features



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.



Scenarios



Houses



Off-grid Cabins



Small Stores



Small Offices



Small Farms

DATASHEET

Model	CHAKRA 5.1-H4 1P1 CHAKRA 5.1-H9 1P1	CHAKRA 5.1-H5 1P1 CHAKRA 5.1-H10 1P1	CHAKRA 5.1-H6 1P1 CHAKRA 5.1-H11 1P1	CHAKRA 5.1-H7 1P1 CHAKRA 5.1-H12 1P1	CHAKRA 5.1-H8 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	
System nominal voltage	204.8 V	256.0 V	307.2 V	358.4 V	409.6 V
	460.8 V	512.0 V	563.2 V	614.4 V	
System 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 ~ 561.6V	492.8 ~ 617.76 V	537.6 ~ 673.92 V	
System Max.charge and discharge current [2]	50 A				
Communication					
Display	LCD Display (battery operating status, SOC, alerts, etc.)				
Communication	CAN / RS485 / RS232 / Wi-Fi				
General Specification					
Dimension (W×D×H)	660x420x845 mm	660x420x995 mm	660x420x1145 mm	660x420x1295 mm	660x420x1445 mm
	26.0x16.5x33.3 inch	26.0x16.5x39.2 inch	26.0x16.5x45.1 inch	26.0x16.5x51.0 inch	26.0x16.5x56.9 inch
	660x420x1595 mm	660x420x1745 mm	660x420x1895 mm	660x420x2045 mm	
	26.0x16.5x62.8 inch	26.0x16.5x68.7 inch	26.0x16.5x74.6 inch	26.0x16.5x80.5 inch	
Weight	204 kg (449.7 lbs)	248 kg(546.7 lbs)	292 kg (643.7 lbs)	336 kg (740.7 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	IP65				
Warranty period	5 years / 10years (Optional)				
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)				
Ordering and Delivery Parts					
Parts	CHAKRA 5.1-HP12-PQC1(Battery Pack)				
	CHAKRA 5.1-HB12-PQC1 (Battery Control Unit) and battery base is packed together				

[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.