

RESIDENTIAL BATTERY

CHAKRA 5.1-HX

High Voltage 20.48 kWh ~ 61.44 kWh

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 CHAKRA 5.1-H9	CHAKRA 5.1-H5 CHAKRA 5.1-H10	CHAKRA 5.1-H6 CHAKRA 5.1-H11	CHAKRA 5.1-H7 CHAKRA 5.1-H12	CHAKRA 5.1-H8
Performance					
Cell technology	LFP (LiFePO ₄)				
Battery module	5.12 kWh, 51.2 V, 45 kg (99.21 lb)				
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 indicator				
Communication	CAN / RS485 / RS232 / Wi-Fi				
General Specification					
Dimension (W × D × H)	660 × 420 × 845 mm	660 × 420 × 995 mm	660 × 420 × 1145 mm	660 × 420 × 1295 mm	660 × 420 × 1445 mm
	26.0 × 16.5 × 33.3 inch	26.0 × 16.5 × 39.2 inch	26.0 × 16.5 × 45.1 inch	26.0 × 16.5 × 51.0 inch	26.0 × 16.5 × 56.9 inch
	660 × 420 × 1595 mm	660 × 420 × 1745 mm	660 × 420 × 1895 mm	660 × 420 × 2045 mm	
	26.0 × 16.5 × 62.8 inch	26.0 × 16.5 × 68.7 inch	26.0 × 16.5 × 74.6 inch	26.0 × 16.5 × 80.5 inch	
Weight	205 kg (451.9 lb)	250 kg (551.2 lb)	295 kg (650.4 lb)	340 kg (749.6 lb)	385 kg (848.8 lb)
	430 kg (948 lb)	475 kg (1047.2 lb)	520 kg (1146.4 lb)	565 kg (1245.6 lb)	
Installation	Floor-standing				
Operating temperature [3]	Charge: 0 °C to 50 °C (32 °F to 122 °F); Discharge: -20 °C to 50 °C (-4 °F to 122 °F)				
Environmental humidity	≤ 95 % RH (non-condensing)				
Ingress protection rating	IP65				
Cycle Life [4]	6000 cycles or 10 years at 80 % DoD, 25 °C, 0.5 C, and 70 % EOL				
Scalability	Up to 12 modules per stack; up to 4 stacks in parallel				
Application	On-grid / On-grid + backup / Off-grid				
Compatible Inverters	Refer to the compatible inverter list (compatible with major PCS brands)				
Standard Compliance					
Compliance	UN 38.3				
Ordering and Delivery Parts					
Product	CHAKRA 5.1				
Part Number	CHAKRA 5.1-HB12-PQCX				

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

[2] There is 0.5C 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.