RESIDENTIAL BATTERY

MANA Series

Low Voltage 5.12 / 10.49 / 16.07 / 20.07 kWh

UN 38.3 IEC



MANA 5 MANA 10 MANA 16 MANA 20

Features

- One-Touch Parallel Scaling
- Remote App Control & Updates
- Mainstream Inverter Compatibility
- Smart BMS & Precise Detection and Protection
- Auto Aerosol Fire Extinguishing Ultimate Security, Strengthen Defenses

Scenarios



Houses



Off-grid Cabins



Small Stores



Small Offices



Small Farms

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DATASHEET

Model	MANA 5	MANA 10	MANA 16	MANA 20
Performance				
Cell technology	LFP ($LiFePO_4$)			
Battery usable energy [1]	5.12 kWh	10.49 kWh	16.07 kWh	20.07 kWh
Nominal capacity	100 Ah	205 Ah	314 Ah	392 Ah
Nominal voltage	51.2 V			
Operating voltage	44.8 ~ 56.16 V			
Max. charge and discharge current [2]	100 A	200 A	200 A	200 A
Recommended Depth of Discharge	90 %			
Cycle Life [3]	6,000 cycles	6,000 cycles	8,000 cycles	9,000 cycles
Communication				
Display	SOC status indicator, LED indicator, LCD display (Optional)			
Communication	CAN / RS485 / RS232 / Wi-Fi			
General Specification				
Dimension (W × D × H)	390 × 160 × 643 mm 15.35 × 6.3 × 25.31 inch	420 × 245 × 706 mm 16.54 × 9.65 × 27.80 inch	485 × 245 × 785 mm 19.1 × 9.6 × 30.91 inch	500 × 270 × 892 mm 19.7 × 10.6 × 35.1 inch
Weight	47 kg (103.6 lb)	82 kg (180.77 lb)	122 kg (268.96 lb)	145 kg (319.7 lb)
Installation	Floor-standing or wall-mounted			
Operating temperature [4]	Charge: 0 °C to 50 °C (32 to 122 °F) Discharge: -15 °C to 50 °C (5 to 122 °F)			
Environmental humidity	≤ 95 % RH (non-condensing)			
Ingress protection rating	IP20			
Warranty Period [5]	5 years / 10 years (Optional)			
Scalability	Max. 15 batteries 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	UN 38.3 / IEC 62619 / IEC 61000 (More available upon request) / IEC 63056 (MANA 20 only)			

[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] Cycle life test conditions: 25 ± 2 °C, 0.5P / 0.5P, 70 % SOH.

[4] Charge / discharge derating occurs when the temperature is below 0 °C or above 45 °C.

[5] Please refer to the Warranty Letter for applicable conditions.

SYSTEM DIAGRAM

