RESIDENTIAL BATTERY

MANA Pro Series

Low Voltage 5.12 / 10.49 / 16.07 / 20.07 kWh

UN 38.3 IEC FC UL

IP65



MANA 5 Pro | MANA 10 Pro | MANA 16 Pro | MANA 20 Pro

Features

- One-Touch Parallel Scaling
- Remote App Control & Updates
- Mainstream Inverter Compatibility
- Smart BMS & Precise Detection and Protection
- IP65-Certified, Higher Protection Level
- 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 Pro	MANA 10 Pro	MANA 16 Pro	MANA 20 Pro
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	51.2 V	51.2 V	51.2 V
Operating voltage	44.8 ~ 56.16 V	44.8 ~ 56.16 V	44.8 ~ 56.16 V	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			
Communication	CAN / RS485 / RS232 / Wi-Fi			
General Specification				
Dimension (W × D × H)	470 × 160 × 635 mm	530 × 245 × 660 mm	530 × 245 × 847 mm	535 × 270 × 880 mm
	18.5 × 6.3 × 25 inch	20.87 × 9.65 × 25.98 inch	20.8 × 9.6 × 33.3 inch	21.1 × 10.6 × 34.6 inch
Weight	48.8 kg (107.5 lb)	88 kg (194.0 lb)	120 kg (264.55 lb)	148 kg (326.28 lb)
Installation	Floor-standing or wall-mounted			
Operating temperature [4]	Charge: 0 °C ~ 50 °C (32 °F ~ 122 °F) Discharge: -15 °C ~ 50 °C (5 °F ~ 122 °F)			
Environmental humidity	≤ 95 % RH (non-condensing)			
Ingress protection rating	IP65			
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 / IEC61000 (More available upon request)			
Additional Compliance	IEC62040-1 / FCC / UL1973 / UL9540A (MANA 5 Pro only) IEC 63056 (MANA 10 Pro, MANA 16 Pro and MANA 20 Pro 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

