

RESIDENTIAL BATTERY

MANA 5.1-1P1 / 10.4-1P1 / 16.0-1P1 / 20.0-1P1

Low Voltage

UN38.3



IP65



Features



One - Touch Parallel
Scaling



Mainstream Inverter
Compatibility



IP65 - Certified,
Higher Protection Level



Remote App Control
& Updates



Smart BMS & Precise
Detection and Protection



Auto Aerosol Fire Extinguishing
Ultimate Security, Strengthen Defenses

MANA 5.1-1P1

MANA 10.4-1P1

MANA 16.0-1P1

MANA 20.0-1P1



Scenarios



Houses



Off-grid Cabins



Small Stores



Small Offices



Small Farms

DATASHEET

Model	MANA 5.1-1P1	MANA 10.4-1P1	MANA 16.0-1P1	MANA 20.0-1P1
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
Recommend Depth of Discharge	90%			
Communication				
Display	SOC status indicator, LED indicator			
Communication	CAN / RS485 / RS232 / Wi-Fi			
General Specification				
Dimension (W×D×H)	470×160×635 mm	530×245×660mm	530×245×847mm	535×270×880 mm
	18.5×63×25 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 lbs)	88 kg (194.0 lbs)	120 kg (264.55 lbs)	148 kg (326.28 lbs)
Installation	Floor stand or wall mounted			
Operating temperature [3]	Charge: 0 to 50°C (32 to 122°F) Discharge: -15 to 50°C (5 to 122°F)			
Environmental humidity	≤ 95%RH (No condensation)			
Ingress protection rating	IP65			
Warranty Period [4]	5 years / 10years (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	UN38.3 / IEC62619 / IEC61000 / IEC62040-1 / FCC / UL1973 / UL9540A (More available upon request)			

[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.

SYSTEM DIAGRAM

