

# RESIDENTIAL BATTERY

MANA 5.1 / 10.4 / 16.0 / 20.0

Low Voltage

UN38.3

IEC



MANA 5.1

MANA 10.4

MANA 16.0

MANA 20.0



## 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

## DATASHEET

Model	MANA 5.1	MANA 10.4	MANA 16.0	MANA 20.0
<b>Performance</b>				
Cell technology	LFP ( LiFePO <sub>4</sub> )			
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
Recommend Depth of Discharge	90%			
<b>Communication</b>				
Display	SOC status indicator, LED indicator, LCD display (Optional)			
Communication	CAN / RS485 / RS232 / Wi-Fi			
<b>General Specification</b>				
Dimension (W×D×H)	390×160×643 mm	420×245×706 mm	485×245×785 mm	500×270×892 mm
	15.35×6.3×25.31 inch	16.73×9.65×25.31 inch	19.1×9.6×30.91 inch	19.7×10.6×35.1 inch
Weight	47 Kg (103.6ls)	82 kg (180.77 lbs)	122 kg (265.96 lbs)	145 kg (319.7 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	IP20			
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)			
<b>Standard Compliance</b>				
Compliance	UN38.3 / IEC62619 / IEC61000 / IEC62040-1 (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

