

RESIDENTIAL BATTERY

MANA 16.0-1P1

Low Voltage



MANA 16.0 - 1P1



Features



One - Touch Parallel
Scaling



Remote App Control
& Updates



Mainstream Inverter
Compatibility



Smart Bms & Precise
Detection and Protection



Ip65 - Certified,
Higher Protection Level



Auto Acrosol Fire Extinguishing
Ultimate Security, Strengthen Defenses

DATASHEET

Model		MANA 16.0-1P1
Performance		
Cell technology	LFP (LiFePO4)	
Battery usable energy [1]	16.07 kWh	
Nominal capacity	314 Ah	
Nominal voltage	51.2 V	
Operating voltage	44.8 ~ 56.16 V	
Max. charge and discharge current [2]	200 A	
Recommend Depth of Discharge	90%	
Cycle life	8000 Cycles@100%DOD 0.5C 25 °C	
Communication		
Display	SOC status indicator, LED indicator	
Communication	CAN / RS485 / RS232 / Wi-Fi	
General Specification		
Dimension (W×D×H)	530×245×847 mm	
	20.8×9.6×33.3 inch	
Weight	120 kg (264.55 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 / EN 61000-6-1 / EN 61000-6-3	

[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.