

RESIDENTIAL BATTERY

MANA 5.12 Ultra

Low Voltage



Full automatic manufacturing,
CCS technique



One button start / stop and
parallel connection



100% tested for safety,
readability and capacity



Real-time data monitoring and
firmware update



Top-notch LFP Class A cell
/ Strict capacity grading



IP 65 design, more installation
scenario



Precise voltage / temperature
/ SOC detection



Comprehensive verification,
TÜV / UL Certificated

DATASHEET

Model		MANA 5.12 Ultra
Performance		
Cell technology	LFP (LiFePO ₄)	
Battery usable energy [1]	5.120 kWh	
Nominal voltage	51.2 V	
Operating voltage	44.8 ~ 56.16 V	
Max. charge and discharge current [2]	100 A	
Communication		
Display	SOC status indicator, LED indicator	
Communication	CAN / RS485 / RS232 / Wi-Fi	
General Specification		
Dimension (W×D×H)	470×160×635 mm	
	18.5×63×25 inch	
Weight	48.8 kg (107.5 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]	10 years	
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)	
Ordering and Delivery Parts		
Parts	MANA 5.12 Ultra Battery	
	MANA 5.12 Ultra Parallel cable	
	MANA 5.12 Ultra to PCS cable	

(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.