

Residential Battery

MANA 5.12/10.24 ecco | Low Voltage



[MANA 5.12 ecco]

[MANA 10.24 ecco]



More Usable Energy

Deep cycle DOD control



Flexible Investment

Up to 15 units in parallel



Safe & Reliable

Premium Lithium Iron Phosphate (LFP)
3500 cycles



Easy Installation

Floor stand or wall mounted



Quick Commissioning

One button ON/OFF Automatic
ID assignment



Perfect Compatibility

Compatible with major PCS brands

Datasheet

CE UN38.3 UK CA IEC RoHS

Model	MANA 5.12 ecco	MANA 10.24 ecco
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Performance

	LFP (LiFePO ₄)	
Cell technology	LFP (LiFePO ₄)	
Nominal voltage	51.2 Vdc	51.2 Vdc
Nominal capacity	100 Ah	200 Ah
Battery usable energy [1]	5.12 kWh	10.24 kWh
Operating voltage	44.8 - 56.16 Vdc	44.8 - 56.16 Vdc
Max. charge and discharge current [2]	100 A	200 A

Communication

Display	SOC status indicator, LED indicator
Communication	CAN / RS485 / RS232

General Specification

Dimension (WxDxH)	450x150x533 mm	550x160x836 mm
	17.7x5.9x21.0 inch	21.7x6.3x32.9 inch
Weight	46 Kg (101.4 lbs)	87.45 Kg (192.7 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	IP 20	
Cycle life [4]	3500 Cycles or five (5) years @ 80% DOD / 25°C / 0.5C, 70% EOL	
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

	UN38.3 / IEC62619/ IEC61000 (More available upon request)
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Ordering and Deliverable Part

Part	MANA 5.12 ecco Battery	MANA 10.24 ecco Battery
	MANA 5.12 ecco Parallel cable	MANA 10.24 ecco Parallel cable
	MANA 5.12 ecco to PCS cable	MANA 10.24 ecco 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, the warranty is due whichever comes first.