

MNPowerflo5 Server Rack Battery

Version: v1.1.0



- Energy Capacity: 5.12kWh
- Nominal Voltage: 51.2V



Eve A+ Grade Lithium
Iron Phosphate Cells
(A+ is the best grade and is used in electric vehicles)



20 Year Design Life
Longest in the Industry

1 Battery automatically assigns addresses.
No dip switch programming required.

2 Automatically identify the inverter protocol
and communicate with the MidNite AIO
inverter in a closed loop.

3 Each battery can be monitored with the
MidNite Pro app or optional software.

4 BMS Firmware can be upgraded remotely
with the MidNite AIO Inverter.



3U 25.6kWh



MN15-12KW-AIO

Product Advantages

Longer Life and Safer

- EVE A+ grade lithium iron phosphate.
- Battery management system with multi-level protection.

Flexible and Expandable

- Up to 16 units in parallel.
- The system's energy capacity is up to 81kWh.

Easy to Install and Use

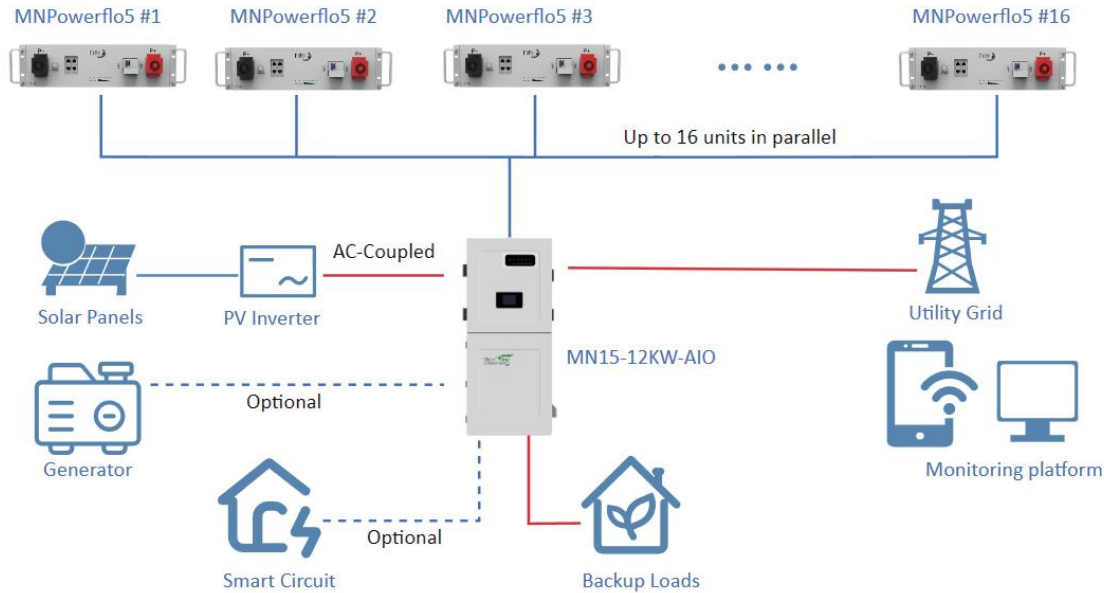
- Applications Residential, Commercial, Industrial, Off-grid, grid tie and self-consumption. Compatible with all 48V inverters that support LFP.
- Compatible with the "PYLON" protocol.

Smart

- Guaranteed not to lose closed loop communication from future updates with MidNite AIO inverter.

Compliance

- UL 1973, UL 9540A, UL9540



Product Name **MNPowerflo5**

Electrical Characteristics

Nominal Voltage	51.2V
Nominal Capacity	100Ah
Energy	5,120Wh
Battery Chemistry	Lithium Iron Phosphate (LFP)
Impedance	$\leq 0.30m\Omega$
Cycle Life	6,000 cycles @77°F(25°C), 0.5C/0.5C
Operating Voltage	46.4~57.6V
Communication Interfaces	CAN/RS485/RS232
Scalable	Up to 16 units

Charge&Discharge

Nominal Charging Current	75A
Nominal Discharging Current	75A
Max. Discharging Current	100A

Environmental

Environment	Indoor(Type 1)
Charging Temperature	32°F to 122°F (0°C to 50°C)
Discharging Temperature	-4°F to 122°F (-20°C to 50°C)
Storage Temperature	14°F to 113°F (-10°C to 45°C)
Altitude	Maximum 9,843 ft (3,000 m)
Cooling Method	Natural Convection
IP Rating	IP20

Mechanical

Dimension(L x W x D)	17.7×17.4×5.2in(450*444*133mm)
Weight	96.5lbs(43.8kg)
Installation	Rack mount