

MNPowerflo16 Wall Floor Mount Battery

Version: v1.1.0



- Energy Capacity: 16kWh
- 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

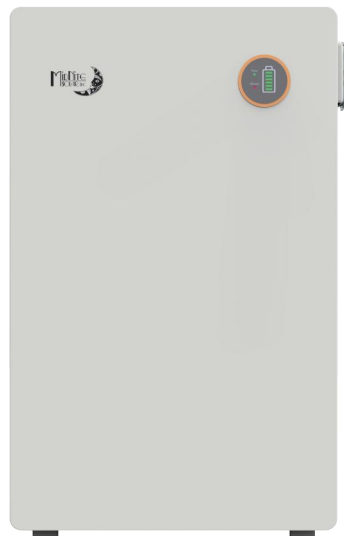
Each battery can be monitored with the
MidNite Pro app or optional software.

4

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

5

The battery is actively balanced @2 amps
improving battery efficiency and SOC
reporting.



Battery 16kWh



MN15-12KW-AIO

Product Advantages

Longer Life and Safer

- EVE or REPT A+ grade lithium iron phosphate.
- Battery management system with multi-level protection.
- Module-level endothermic decomposition and cooling fire extinguishing.

Flexible and Expandable

- Up to 16 units in parallel, the system's energy capacity is up to 257kWh.

Higher Energy Density

- The battery takes up less space and has an energy density of up to 178Wh per kilogram.

Easy to Install and Use

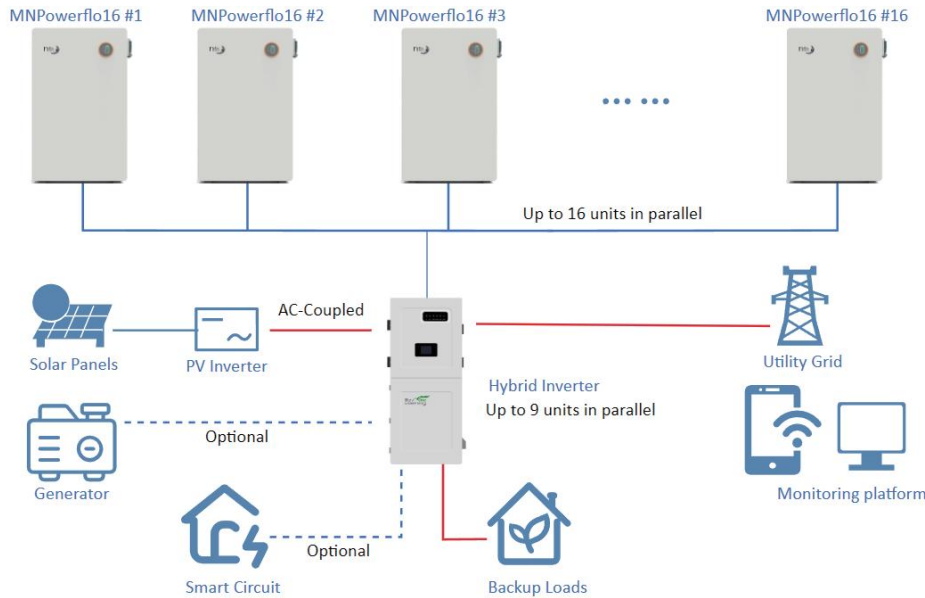
- Applications Residential, Commercial, Industrial, Off-grid, grid tie and self-consumption. Compatible with all 48V inverters that support LFP.
- Compatible with the "PYLON" protocol.

Smart

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

Compliance

- UL 1973, UL 9540A, UL9540



Product Name		MNPowerflo16
Electrical Characteristics		
Nominal Voltage		51.2V
Nominal Capacity		314Ah
Energy		16,076Wh
Battery Chemistry		Lithium Iron Phosphate (LFP)
Cycle Life		8,000 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		160A
Nominal Discharging Current		160A
Max. Discharging Current		210A
Environmental		
Environment		Outdoor, Indoor
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 (-20 to 50)
Altitude		Maximum 9,843 ft (3,000 m)
Cooling Method		Natural Convection
IP Rating		IP65
Mechanical		
Dimension(L x W x D)		31.50 x19.69x19.69in(800*500*227mm)
Weight		284lbs(128.9kg)
Installation		Wall mount or floor mount