

# MNPowerflo16

## Wall Floor Mount Battery

Version: v1.2.0



»»» 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  
15-Year Warranty

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

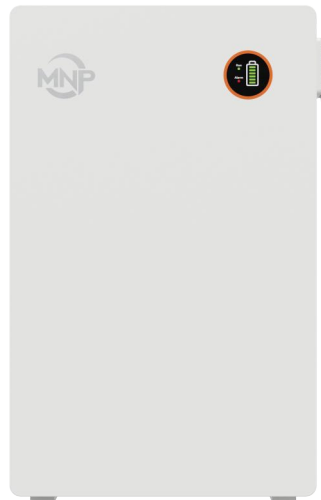
Each battery can be monitored with the  
MidNite Pro app or optional software.

4

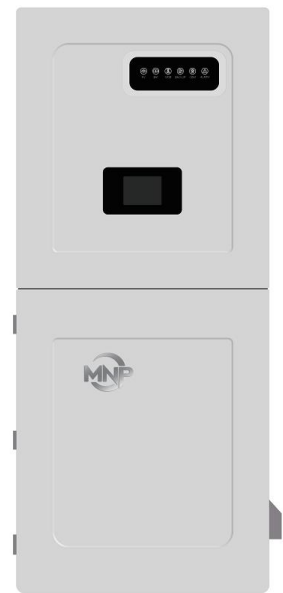
BMS Firmware can be upgraded remotely  
with the MidNite AIO Inverter.

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

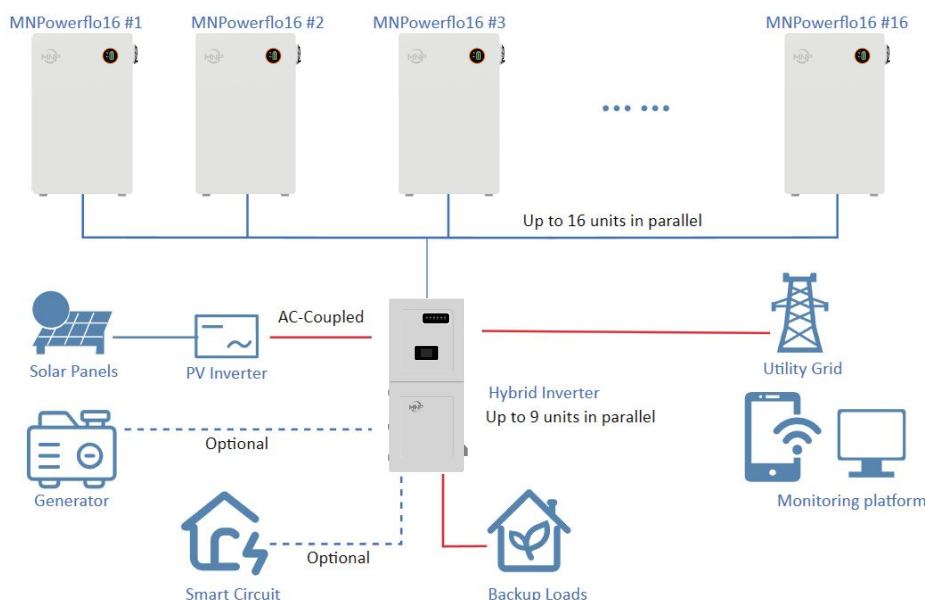
- Applications Residential, Commercial, Industrial, Off-grid, grid tie and self-consumption. Compatible with all 48V inverters that support LFP
- Compatible with the "PYLON" protocol

#### Smart

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

#### Compliance

- UL 1973, UL 9540A, UL9540



## Product Name

**MNPoweflo16**

## 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	-4°F to 122°F (-20°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	IP65

## Mechanical

Dimension(L x W x D)	31.50 x19.69x8.94in(800*500*227mm)
Weight	284lbs(128.9kg)
Installation	Wall mount or floor mount

\* When the ambient temperature is below 32°F (0°C), the internal heating pads start to operate.  
The battery begins charging when the cell temperature is between 32°F and 122°F (0°C and 50°C).