

Powerflo16 Wall/Floor Mount Battery

Version: v1.4

»»» 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 Sol-max AIO
inverter in a closed loop.

3

Each battery can be monitored with the
MNPow Assistant app, with bluetooth,
or optional software.

4

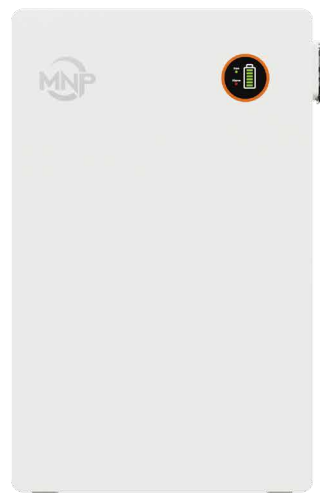
BMS Firmware can be upgraded remotely
with the Sol-max AIO Inverter.

5

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

6

Built in battery heating



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 20 units in parallel, the system's energy capacity is up to 320kWh

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

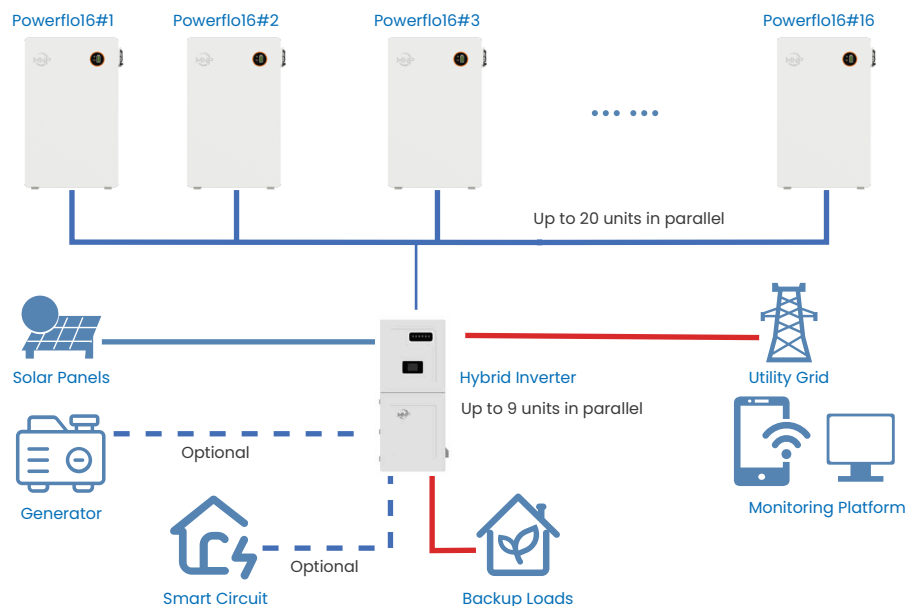
- Applications Residential, Commercial, Industrial, Off-grid, grid tie and self-consumption. Compatible with all 48V inverters that support LFP
- Compatible with the "PYLON" protocol

Smart

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

Compliance

- UL 1973, UL 9540A, UL9540



Product Name

Solmax Powerflo16

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), 80% DOD, 0.5C/0.5C
Operating Voltage	46.4~57.6V
Communication Interfaces	CAN/RS485/RS232
Scalable	Up to 20 units

Charge&Discharge

Continuous Charging Power	160A / 8.192 kW
Continuous Discharging Power	160A / 8.192 kW
Max. Discharging Power	210A / 10.752 kW

Environmental

Environment	Outdoor, Indoor
Charging Temperature	32°F to 122°F (0°C to 50°C)*
Discharging Temperature	-4°F to 140°F (-20°C to 60°C)
Storage Temperature	32°F to 77°F (0°C to 25°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 battery cells are below 50°F (10°C), and the battery is in charging status, 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).