

LFP.6144.G LIFEPO4 BATTERY CLUSTER

LFP.6144.G is supported by the LFP.6144.GM centralized control box, which has a built-in 300A connection terminal and can support the operation of a 15KW inverter.

Up to 8 battery modules can be connected in parallel in one group, expanding the capacity to 49.15kWh.

It supports parallel connection of up to 4 groups, expanding the capacity to 196.6kWh.

Each centralized control box manages the battery modules under it, ensuring passive balancing between the modules for high consistency. Passive balancing is also performed between groups to maintain optimal performance for the entire parallel module system.



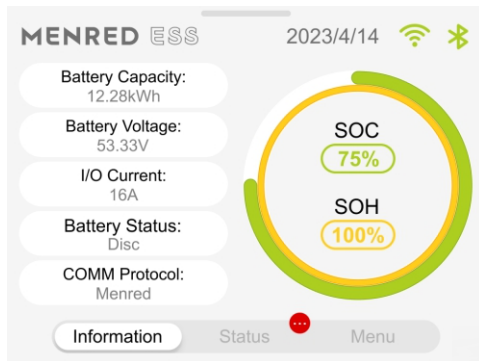
LFP.6144.G2

* 3D model available

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Upgrade with Touchscreen EMS panel (optional)

The options to choose LED display or LCD touchscreen are available to show battery capacity and operating status. The LCD version provides a centralized display of information for each battery group, including overall information for the entire battery cluster and specific details for each battery module. It displays information such as voltage and temperature for each cell. The system also supports the selection of communication protocols and allows users to view battery cluster information through an app using WiFi. Additionally, it supports compatibility with up to 27 mainstream inverter brands.



Flexible configuration

Each LFP.6144.GM can be configured with up to 8 battery modules, meeting diverse user needs. It has a built-in 300A connection terminal and supports 1C charging and discharging, making it compatible with a 15KW inverter.

Up to 4 LFP.6144.GM units can be parallel-connected, allowing for an expansion of capacity up to 196.6kWh. This meets the requirements of high-capacity users.

LFP.6144.G2/G3/G4

* 3D model available

Easy installation

The unique and innovative design allows for easy and quick positioning during module stacking. With hidden upper and lower cable ports, parallel connection and communication line connections can be easily achieved.

The LFP.6144.GM supports both LED and LCD versions of the connection panel.

System Parameters

Model	LFP.6144.G2	LFP.6144.G3	LFP.6144.G4
Battery Cell	Lithium Iron Phosphate (cobalt-free)-LiFePO ₄		
Energy Capacity	12.28kWh	18.43kWh	24.57kWh
Usable Capacity	11.66kWh (DoD 95%)	17.50kWh (DoD 95%)	23.34kWh (DoD 95%)
Assembly method	1 Parallel Control Box and 2 Battery Packs	1 Parallel Control Box and 3 Battery Packs	1 Parallel Control Box and 4 Battery Packs
Nominal Voltage	51.2Vdc		
Operate Voltage Range	44.8Vdc-57.6Vdc		
Max Charge Current	240Amp Max@15kW inverter	300Amp Max@15kW inverter	
Max Discharge Current	240Amp Max@15kW Grid or PV Charge	300Amp Max@15kW Grid or PV Charge	
Max Parallel	4PCS to 49.12kWh	4PCS to 73.72kWh	4PCS to 98.28kWh
Cycle Life	≥6000 Times@0.5C&25°C		
Operate Temperature	Battery discharge: -10°C to +50°C, Battery Charge: 0°C to +50°C		
IP Grade	IP 21 (Indoor)		
Installation	Floor Stand Installation		
Communication Port	CAN/RS485		
BMS Monitoring	SOC, System Voltage, I/O Current, Battery Capacity, Cycle Times, Battery Status, Cell Number, Fault code, Inverter COMM		
Support Inverter Brands	CAN: Victron V1.0/SMA V2.0/ Studer V1.03/CNBOU V1.0/PYLON V1.3/Goodwe V1.5/SUNGROW V1.3/ Solis V1.0/SOFAR V1.0/Growatt V1.05/Growatt V1.01/Luxpower V1.0/ Sol-Ark V1.2/TBB V1.02/ Deye V1.0/LIVOLTEK V1.0/Sorotec V1.0/MEGAREVO V1.01/Afore V1.0/Sacolar V1.05 RS485: PYLON V3.5/DEYE V1.0/SRNE V1.3/Growatt V2.01/SMKSOLAR V2.01/EPEVER V1.4/Voltronic V1.0		
Dimensions	600*1010*220mm	600*1440*220mm	600*1870*220mm
Weight	140kg	205kg	270kg

Support Inverter Brands

