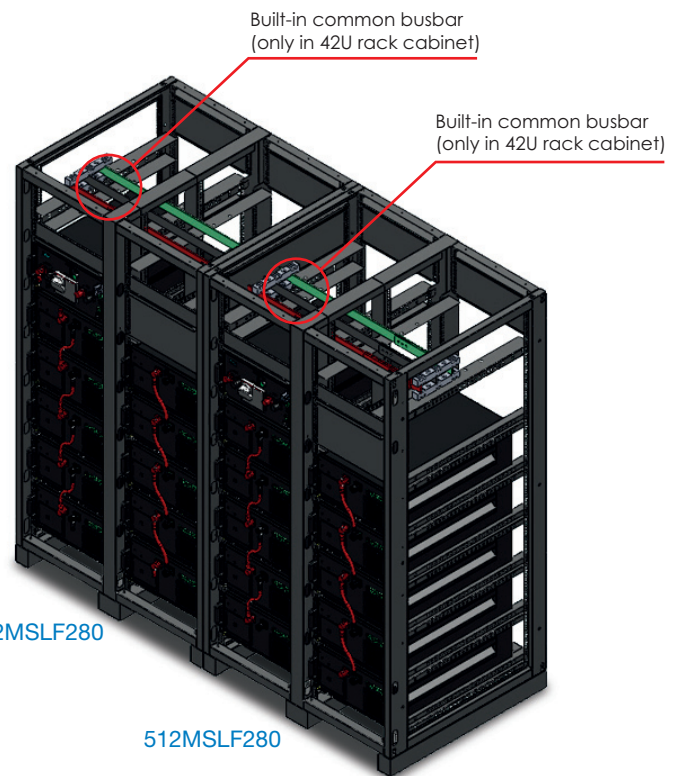


280Ah LFP Battery Module

High-voltage LiFePO₄ battery designed for Energy Storage System (ESS), Microgrid, UPS backup system or Telecommunication applications.



512MSLF280 in 36U Rack Cabinet



512MSLF280

512MSLF280

Two sets of 512MSLF280 in 42U Rack Cabinets

- New-generation LiFePO₄ battery provides high reliability and extended cycle life
- High energy density and stable discharging characteristic help reduce the service rate of base station.
- Modular design enables scalable output power and capacity through series and parallel connections to meet various system requirements
- Support high-rate discharging, high efficiency
- Environmentally friendly design, with a wide operating temperature range.
- Comprehensive protection functions: over voltage, under voltage, short circuit, reverse polarity connection, overload, over current, high and low temperature, cell balancing and dormancy mode
- Intelligent design supports remote testing, communication, control, and configuration adjustment
- RS-485 interfaces for communication with the station monitoring platform
- LED indicators provide clear visibility and operation status
- Easily replaces existing lead-acid battery systems by adjusting parameters such as charging and discharging voltage
- Available in 36U and 42U rack cabinets to support flexible and customized system configuration
- Built-in common busbar only in 42U rack cabinet enables easy and reliable parallel connections
- Especially suitable for remote or off-grid sites, including areas with frequent power outages, or wind/solar-powered base stations.

MODEL		51MSLF280	256MSLF280	512MSLF280
RATED VOLTAGE		51.2 Vdc	256 Vdc	512 Vdc
NOMINAL CAPACITY	At 25°C ± 2°C	280 Ah, 14.34 kWh	280 Ah, 71.7 kWh	280 Ah, 143.4 kWh
CHARGING (at 25°C)	Max. charging current	140 A	140 A	140 A
	Charging voltage	57.6 V	288 V	576 V
	Max. charging voltage	58.4 V	292 V	584 V
DISCHARGING (at 25°C)	Max. discharging current	140 A	140 A	140 A
	End of discharge voltage	44 V	220 V	440 V
FRONT PANEL	LED	Run, Alarm, Batt. Level	Run, Alarm	Run, Alarm
	Communication ports	RS-485	RS-485 (CAN is optional)	RS-485 (CAN is optional)
	Operation switch	yes		
	Connection	Screw type terminal connector		
PROTECTION	Charging temperature	0°C to 55°C		
TEMPERATURE	Discharging temperature	-20°C to 55°C		
ENVIRONMENT	Operating temperature	0°C to 45°C		
	Storage temperature	-20°C to 60°C (recommended 5°C to 35°C)		
	Relative humidity	5 - 95%		
	Altitude	4,000 m		
DIMENSION (W x H x D in cm)	Battery module	51 x 23.3 x 80 cm	-	-
	Battery modules in 36U rack cabinet	-	60 x 185 x 87 cm	120 x 185 x 87 cm
	Battery modules in 42U rack cabinet (with common bus bar)	-	60 x 220 x 100 cm	120 x 220 x 100 cm
WEIGHT (Approximate in kg)	Battery module	117 kg	-	-
	Battery modules in 36U rack cabinet	-	695 kg	1,350 kg
	Battery modules in 42U rack cabinet (with common bus bar)	-	722 kg	1,390 kg

Continuous product development is our commitment. In that manner, the above specifications may be changed without prior notice.