



As the leading vertically integrated manufacturer of lithium iron phosphate battery systems, Solar Power Store has provided various battery solutions for nearly all kinds of ESS applications. Thanks to our self-developed core technology in cells/BMS/system design, Solar Power Store has delivered more than 138+ countries serving 100,000+ users.

✓ Long life and safety

Vertical industry integration ensures more than 8500 cycles with 80% DoD.
Safe Lithium iron phosphate battery cell.

✓ Intelligent

Each battery with independent BMS system manages power output smartly and effectively.

✓ Modularization

Modular design gives the end customers the power of choice of capacity Deliver up to 229KW with single max module (14.34KWh) at 16pcs parallel connection.

✓ Easy to install and use

Just plug and play to minimize the installation time and cost. Compact and fashionable design fits in your sweet home environment.

✓ Compatibility

Compatible with most of the available Hybrid inverters.

✓ Safety Cert

UL1973, UL9540A, CB-IEC62619, CE-EMC, UN38.3, MSDS

Battery Specifications

Model No

MOOSE48V280A

Nominal Parameters

Battery Chemistry	LiFePO4	
Voltage	51.2V	
Operating Voltage	46-56V	
Capacity	280Ah	
Energy	14.34Kwh	
Scalability	Max.16pcs in parallel (229kWh)	
Usable Energy	12.91Kwh	
Charge/Discharge Current	Recommend	100A
	Max.	150A
	Peak(2mins,25°C)	200A

Basic Parameters

Recommend Depth of Discharge	80%
Dimension (W/H/D)	900*675*200mm / 35.4*26.6*7.8 in
Weight Approximate	128.5kgs / 283 lbs
Master LED Indicator	4 LED (SOC:25%~100%)
	2 LED (working, alarming, protecting)
IP Rating of Enclosur	IP20
Working Temperature	Charge:0°C ~ 55°C Discharge:-20°C ~ 55°C
Storage Temperature	0°C ~ 35°C
Humidity	5%~95%
Altitude	≤2000m
Cycle Life (25±2°C,0.5C/0.5C,80%EOL)	≥8500
Installation	Wallmounted
Communication Port	CAN2.0, RS485
Warranty Period [3]	15 years
Life Cycle Power During Warranty Period	64.80MWh@80% EOL
Certification	UL1973, UL9540A, CB-IEC62619, CE-EMC, UN38.3, MSDS