LIFEPO4 LITHIUM BATTERY

R48-100LFP ESS





Series	R-SERIES LFP ESS	Warranty	See Warranty Terms
Volts	48	Design	19" Rack Std.
Terminal Type		4x M6 Terminals (2+/2-)	
Size & Thread		M6	

Charge | Discharge	
Charge Voltage Range	56.0 V
Recommended Charge Current	50 A
Maximum Charge Current	100 A
Self-Discharge Rate	Less than 3% per month at 15-35°C
Recommended End of Discharge Voltage	50 V
End of Discharge Protection Voltage	46.4 V
Recommended Charge Voltage	56 V
Recommended Charge Current	

-5~0°C (23-32°F)	0.03C	3A
0~5°C (32~41°F)	0.05C	5A
5-10°C (41-50°F)	0.2C	20A
10-17°C (50-63°F)	0.4C	40A
17-40°C (63-104°F)	1C	100A
40-50°C (104-122°F)	0.3C	30A
50-60°C (122-140°F)	0.1C	10A

Charge Mode:
Charge at recommend voltage & current by temperature until charge current drops to ≤ 0.05C (CC,CV)

Max Continuous Charge Current	100 A
Max Continuous Discharge Current	100 A
Surge Current Limit	120 A (300ms)
Charge Temperature Range	-10~50°C (-14~122°F)
Discharge Temperature Range	-20°~50°C (-4~122°F)
Storage Temperature Range	-15°~35°C (5~95°F)

Capacity	
Nominal Capacity	100 AH
Total Energy	5.12 kWh
Nominal Voltage	51.2 V

Safety

- Prismatic LiFePO4 cells [100Ah, IFpP50160118-100] (UL 1642)(UL 1973)
- IEC62619(cell), UN38.3 (cell/pack)
- ROHS (cell), CE system certification, IP20 Rating

Design

- 19″ 3U rack-compatible
- Up to 32 parallel connectivity
- State-of-charge (SOC) indication
- CAN bus & RS-485 connectivity
- BMS on/off switch
- PC Connectivity

Battery Management System (BMS)

- Integrated hardware BMS inside
- Independent charge & discharge protection, secondary protection
- Short-Circuit Protection, Over-Voltage Protection, Low-Voltage Protection, Over-Current Protection, Low-Temperature Protection, Over-Temperature Protection

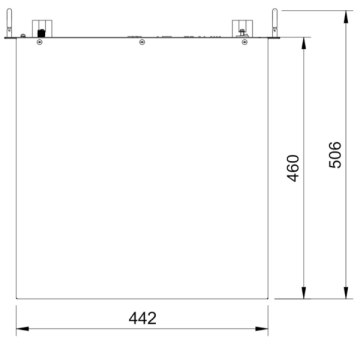
48V LFP Profile

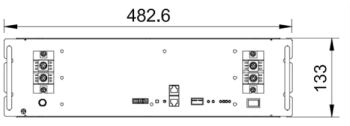
Specifications		
Weight	42 kg	92.6 lbs
Length	460 mm	18.1"
Width	482 mm	19.0"
Height Incl. Term.	133 mm	5.2"

Product measurements & weights are calculated based on sample data. Individual specifications are subject to vary due to the manufacturing process & battery components.

Container	Metal
Handles	Built-in
Internal BMS Model	16S200A
Expected Cycle Life	>5000 @ 90% DOD, 0.2C rate, 60% EoL
Series Connection	1
Parallel Connection	32
Connectivity	1x RS-485 / CAN bus See Operating Manual for compatible inverters, communication types and protocols

Detailed Illustration





ISO9001 ISO14001 OHSAS18001

Rev.#1