



LITHIUM BATTERY PACK

ESS-48V 200Ah



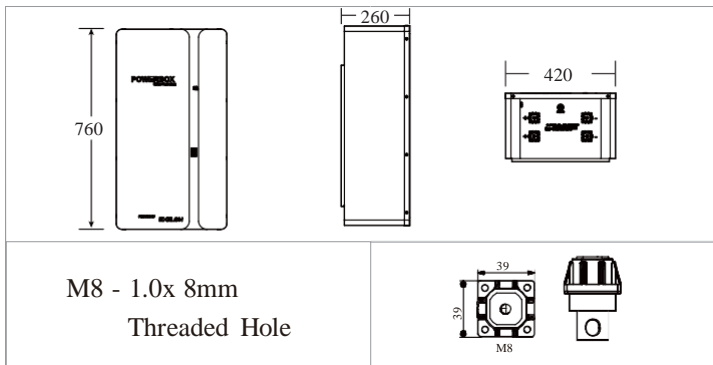
FEATURES

Lithium Iron Phosphate (LiFePO4): the Safest Lithium Technology.
 Integrated Battery Management System(BMS).
 Bluetooth/RS485/RS232/SMBus/CANBus (Optional).
 SOC LED/LCD Indicator(Optional).

PERFORMANCE

Long Cycle Life > 6000cycles @ 80% DOD.
 High Density, High Discharge Current, High Temperature Range.
 Low Weight, Free Maintenance.
 Fast Charging.
 Environment Friendly.

CHARACTERISTICS



Item	Specifications
Nominal Voltage	48V
Rated Capacity	200Ah
Energy	9600Wh
Resistance	$\leq 30m \Omega$
Efficiency	99%
Cycle Life	>6000cycles @ 80% DOD
Self Discharge	2% per Month

Dimension(L x W x H)	420 x 260 x 760 mm
	16.53 x 10.23 x 29.92"
Weight	84kg(185.2lbs)
Terminal Type	M8
Battery Housing	Metal
Housing Protection	IP56
Cell Type-Chemistry	LiFePO4 Battery Cell
SoC Display	LED/LCD Indicator

Charge Method	CC-CV
Charge Voltage	54~55.5V
Recommended Float Voltage	51.75V
Recommended Charge Current	50A
Maximum Charge Current	100A
BMS Charge Cut-off Voltage	58.5V

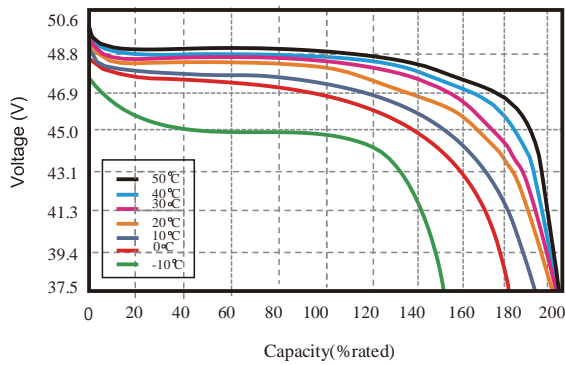
Discharge Temperature	-20 to 60 °C (-4 to 140 F)
Charge Temperature	0 to 45 °C (32 to 113 F)
Storage Temperature	0 to 60 °C(32 to 140 F)
BMS High Temperature Cut-off	80 °C(176 F)

Continuous Discharge Current	200A
Pulse Discharge Current	300A(<3 seconds)
Recommended Volt. Disconnect	37.5V
BMS Discharge Cut-off Voltage	30V
Reconnect Voltage	34.5V
Short Circuit Protection	200~600 us

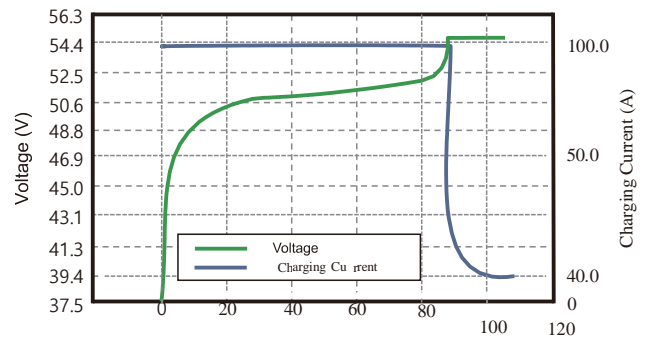
CHARACTERISTICS

- + Military Power Supply
- + Solar Energy Storage System
- + Solar Street LED Lightings
- + Industrial Robotics & Handling Equipment
- + Aerial Work Platform

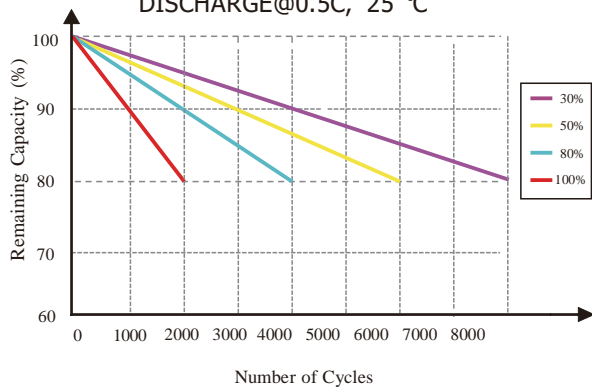
DISCHARGE CAPACITY at VARIOUS TEMPERATURES
DISCHARGE @0.5C, 25 °C



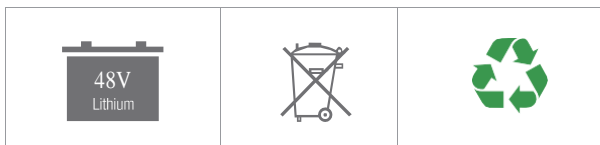
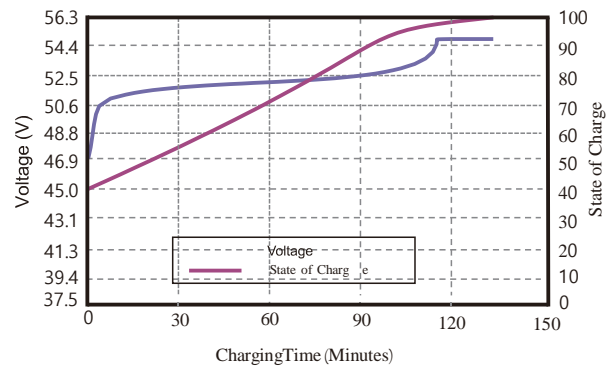
CHARGING CHARACTERISTICS @0.5C, 25 °C



CYCLE LIFE vs. DEPTH OF DISCHARGE(DOD)
DISCHARGE@0.5C, 25 °C



STATE OF CHARGE CURVE @0.5C, 25 °C



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NOTE: Do Not Mix With Sealed Lead Acid Batteries When Recycling.

