

FEATURES

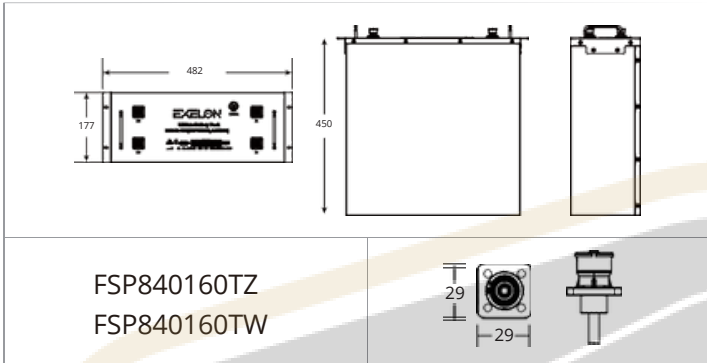
Lithium Iron Phosphate (LiFePO₄): the Safest Lithium Technology
Integrated Battery Management System(BMS).
Bluetooth/RS485/RS232/SMBus/CANBus (Optional).
SOC LED/LCD Indicator(Optional).

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	100Ah
Energy	4800Wh
Resistance	≤30mΩ
Efficiency	99%
Cycle Life	>6000cycles @ 80% DOD
Self Discharge	2% per Month

Dimension(L x W x H)	482 x 450 x 177 mm 18.98 x 17.71 x 6.97"
Weight	43.5kg(95.9lbs)
Terminal Type	FSP840160TZ/TW
Battery Housing	Metal
Housing Protection	IP56
Cell Type-Chemistry	LiFePO ₄ Battery Cell
SoC Display	LED/LCD Indicator

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

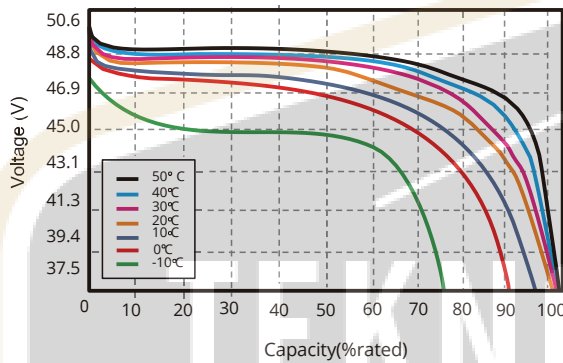
Discharge Temperature	-20 to 60℃ (-4 to 140℉)
Charge Temperature	0 to 45℃ (32 to 113℉)
Storage Temperature	0 to 60℃ (32 to 140℉)
BMS High Temperature Cut-off	80℃ (176℉)

Continuous Discharge Current	100A
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

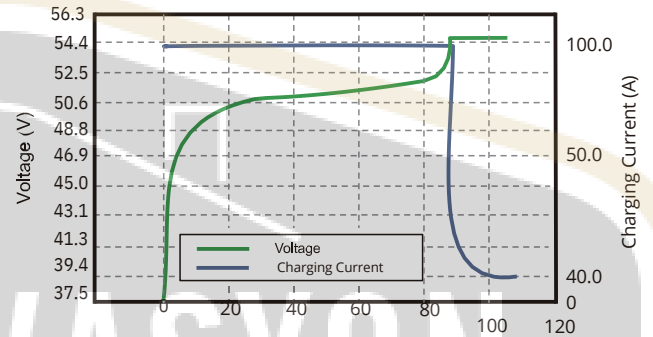
CHARACTERISTICS

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

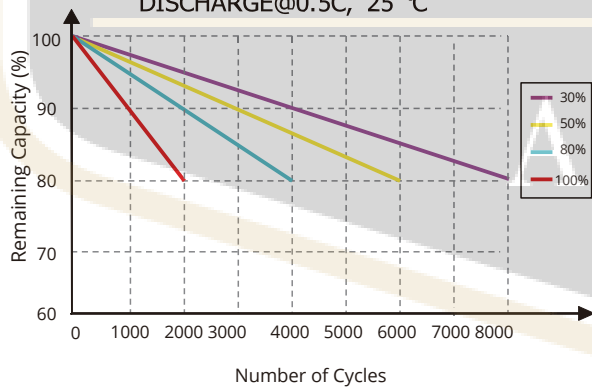
DISCHARGE CAPACITY at VARIOUS TEMPERATURES
DISCHARGE @0.5C, 25°C



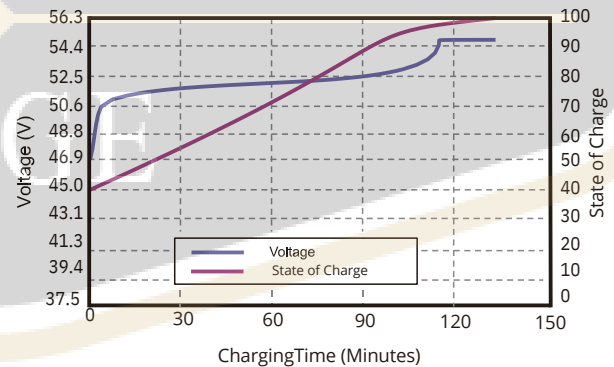
CHARGING CHARACTERISTICS @0.5C, 25 C



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



STATE OF CHARGE CURVE @0.5C, 25 C



www.exeloness.com

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



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