

Voltage: 51.2V | Capacity: 200 Ah | Energy: 10240 Wh

Lithium iron phosphate battery | LiFePO4

ELECTRICAL SPECIFICATIONS

Nominal Voltage	51.2V
Nominal Capacity	200 Ah
Capacity @ 40A	300 min
Resistance	≤30 mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Cycle Life	6000 times DOD80% (0.2C)
Maximum Modules in parallel	15

DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	200 A
Peak Discharge Current	220 A (3-5 s)
BMS Discharge Current Cut-Off	220 A (3-5s)
Recommended Low Voltage Disconnect	43.2 V
BMS Discharge Voltage Cut-Off	40 V (2.5 ±0.05 v) (1-2s)
Reconnect Voltage	43.2 V (2.7 ±0.05 v)
Short Circuit Protection	200-600 μs

TEMPERATURE SPECIFICATIONS

Discharge Temperature	-4 to 140 °F (-20 to 60 °C)
Charge Temperature	32 to 131 °F (0 to 55 °C)
Storage Temperature	14 to 113 °F (-10 to 45°C)
BMS High Temperature Cut-Off	167 °F (75 °C)
Reconnect Temperature	149°F (65 °C)

MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	35.03 x 18.11 x 6.29 inch 890 x 460 x 160 mm
Weight	187.4 lbs (85 kg)
Terminal Type	Energy storage terminal 120A ++/--
Case Material	SPCC
Enclosure Protection	IP54
Cell Type	LiFePO4

CHARGE SPECIFICATIONS

Recommended Charge Current	40 A
Maximum Charge Current	100 A
Recommended Charge Voltage	56.8 V – 58.4 V
BMS Charge Voltage Cut-Off	60 V (3.70 ±0.05 v) (1.0 s)
Reconnect Voltage	56.8 V (3.55 ±0.05 v)
Balancing Voltage	54.4 V (3.4 ±0.05 v)

COMPLIANCE SPECIFICATIONS

Certifications	UN38.3 (cells) 、CE(cells) UL1973 (cells)
Shipping Classification	UN 3480, CLASS 9

DIMENSIONAL SPECIFICATIONS

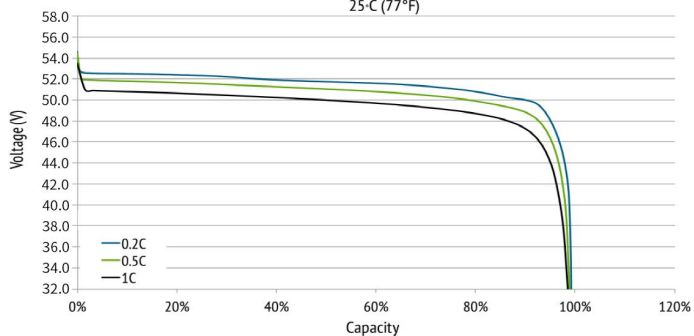


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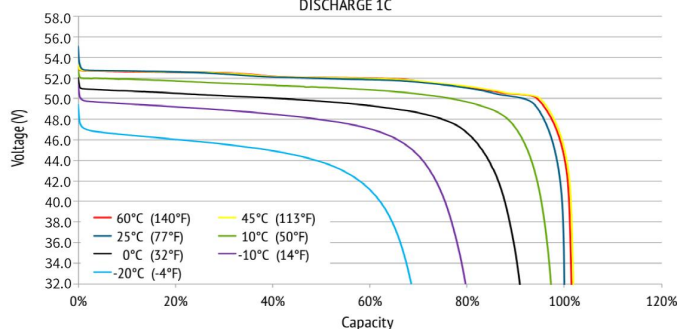
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PERFORMANCE CHARACTERISTICS

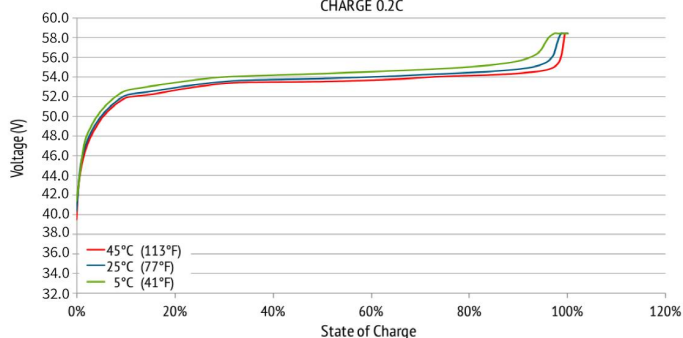
DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS RATES
25°C (77°F)



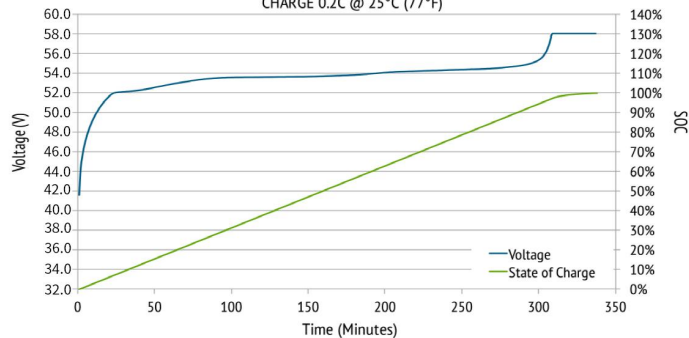
DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES
DISCHARGE 1C



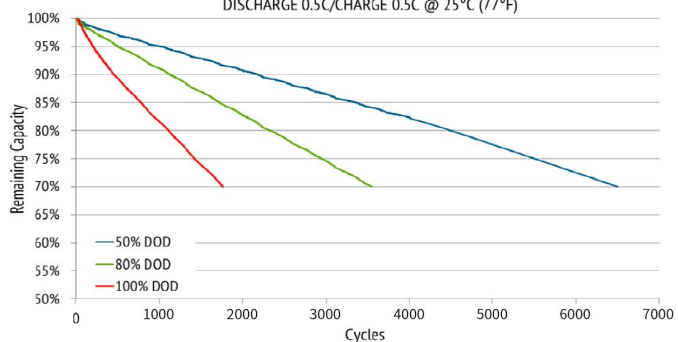
CHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES
CHARGE 0.2C



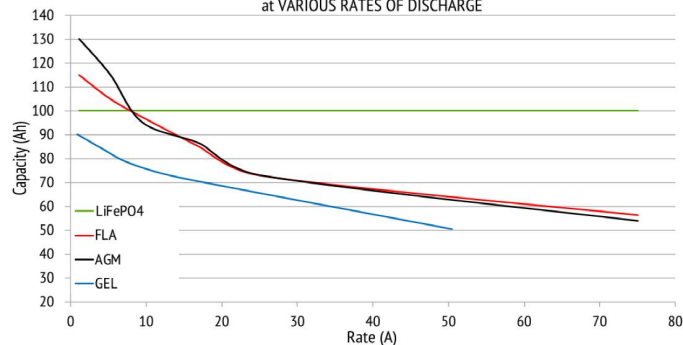
CHARGE VOLTAGE and STATE OF CHARGE (SOC)
CHARGE 0.2C @ 25°C (77°F)



CYCLE LIFE vs. DEPTH OF DISCHARGE (DOD)
DISCHARGE 0.5C/CHARGE 0.5C @ 25°C (77°F)



CAPACITY of LiFePO4 vs. LEAD ACID
at VARIOUS RATES OF DISCHARGE



UN38.3

