

Voltage: 51.2V | Capacity: 100 Ah | Energy: 5120 Wh

Lithium iron phosphate battery | LFP04

ELECTRICAL SPECIFICATIONS

Nominal Voltage	51.2V
Nominal Capacity	100 Ah
Capacity @ 20A	300 min
Resistance	≤30 mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Cycle Life	2000 times DOD100% (0.5C) ≥80%
Maximum Modules in Series	1 (single use)

DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	100 A
Peak Discharge Current	300 A (0.5-1.5 s)
BMS Discharge Current Cut-Off	300 A (0.5-1.5 s)
Recommended Low Voltage Disconnect	43.2 V
BMS Discharge Voltage Cut-Off	40 V (2.5 ±0.05 v) (2 s)
Reconnect Voltage	43.2 V (2.7 ±0.1 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)	28.34 x 18.11x 11.02 inch 720 x 460 x 280 mm
Weight	110.2 lbs (50 kg)
Terminal Type	Anderson
Case Material	ABS
Enclosure Protection	IP30
Cell Type	LiFePO4

TEMPERATURE SPECIFICATIONS

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

CHARGE SPECIFICATIONS

Recommended Charge Current	20 A
Maximum Charge Current	100 A
Recommended Charge Voltage	56.8 V – 58.4 V
BMS Charge Voltage Cut-Off	60 V (3.75 ±0.05 vpc) (2 s)
Reconnect Voltage	57.6 V (3.6 ±0.05 v)
Balancing Voltage	54.4 V (3.4 ±0.05 v)

INPUT& OUTPUT

AC charger (Anderson 50A)	AC100V 60HZ 1800W Max 3.5H
Solar Input (SAE)	<110V 30A 1800W Max 3.5H
AC Output Voltage	AC 100V 60HZ
AC Output Power	3600W Max
AC Output Peak Power	7000W
USB-A	QC3.0 *3 18W
USB-C	Type-C *3 18W
Car port	12V 10A Max *1 120W
DC Output/Input	Anderson 50A
DC in Parallel	Anderson 50A

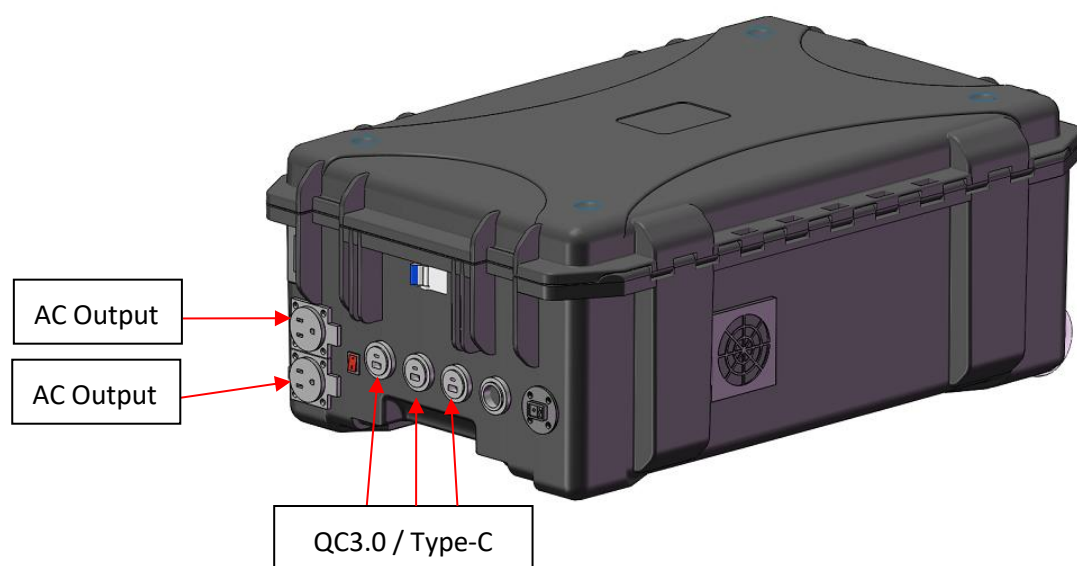
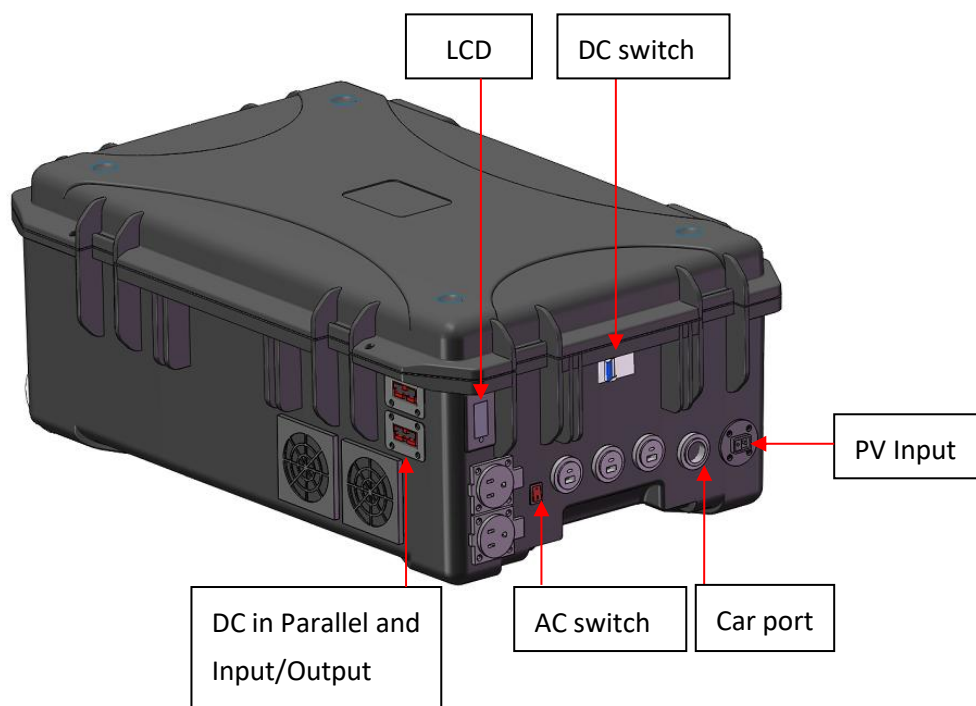
DIMENSIONAL SPECIFICATIONS



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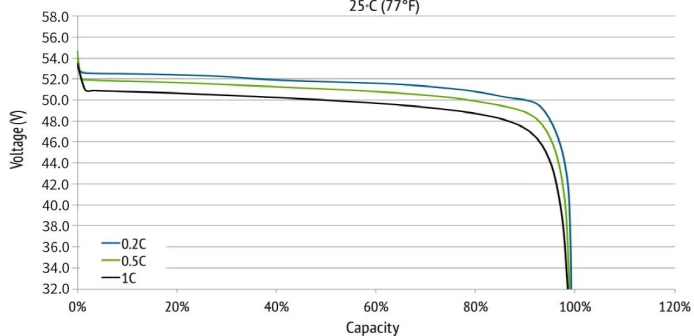


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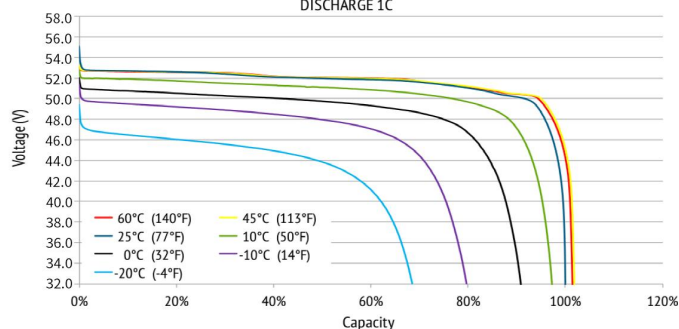
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PERFORMANCE CHARACTERISTICS

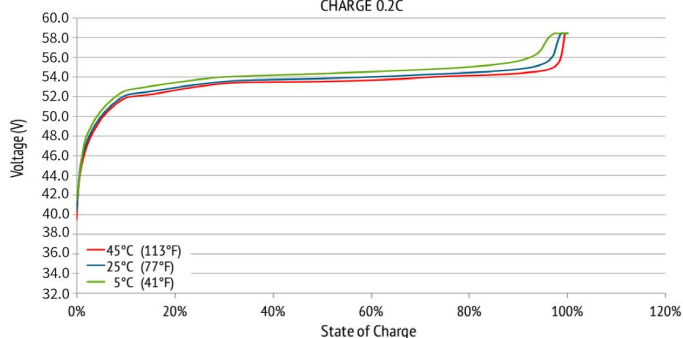
DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS RATES
25°C (77°F)



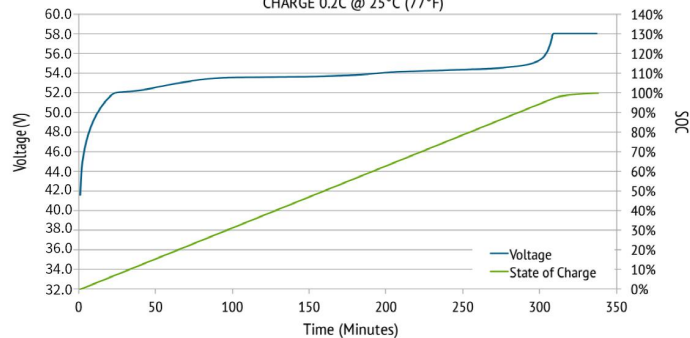
DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES
DISCHARGE 1C



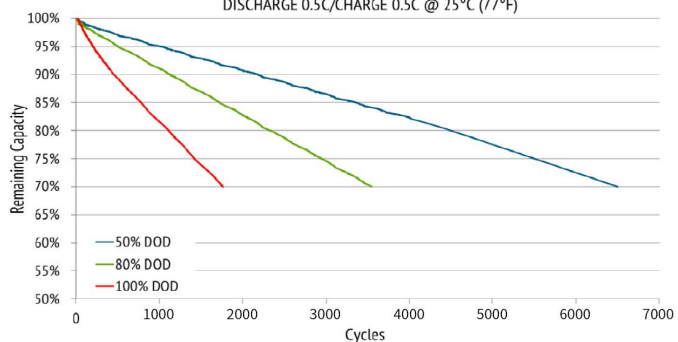
CHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES
CHARGE 0.2C



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

