

12.8V-42Ah-538Wh-SP

LiFePO₄ | Voltage: 12.8V | Capacity: 42Ah | Energy: 538Wh

IEC 62133, UN 38.3, UL 2054, CE



FEATURES:

A Lithium-Ion Technology battery pack with double the capacity and half the weight of a similar size lead acid battery. In addition, it cannot be damaged by full discharge unlike lead acid battery.

Compatible with Triplite & Power VAR Medical Cart UPS.

It comes with an external charge capability via a dedicated charger port, for non-UPS capable operations.

Perfect for light Trolling motors and other light applications up to 20A

The Battery Management System (BMS) is designed and built by Teviot Technology.

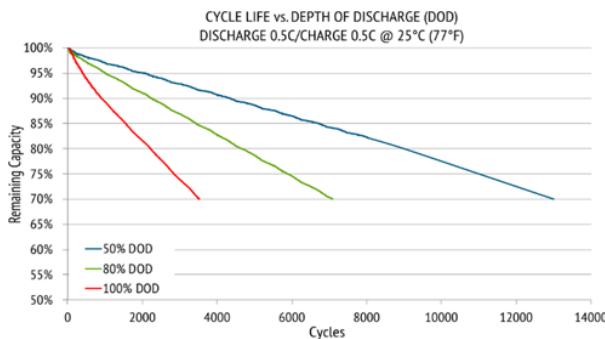
Life Cycle is up to 4000 full-depth of discharge (DOD).

UL IECC 26650 cells incorporating ceramic coated separators for higher reliability and safety.



Under Temperature	MIN	TYP	MAX
Charge Under Temperature Trip	-6 °C	-5°C	-4 °C
Charge Under Temperature Release/Warning	4 °C	5 °C	6 °C
Discharge Under Temperature Trip	-26 °C	-25 °C	-24 °C
Discharge Under Temp Release/Warning	-16 °C	-15 °C	-14 °C
Over Temperature	MIN	TYP	MAX
Charge Over Temperature Trip	58 °C	65°C	66 °C
Charge Over Temperature Release/Warning	49 °C	50 °C	51°C
Discharge Over Temperature Trip	74 °C	75°C	76 °C
Discharge Over Temp Release/Warning	64 °C	65 °C	66°C

Quiescent Current	MIN	TYP	MAX
At 3.3V cell voltage	-	-	10mA
Sleep Mode	-	-	400µA



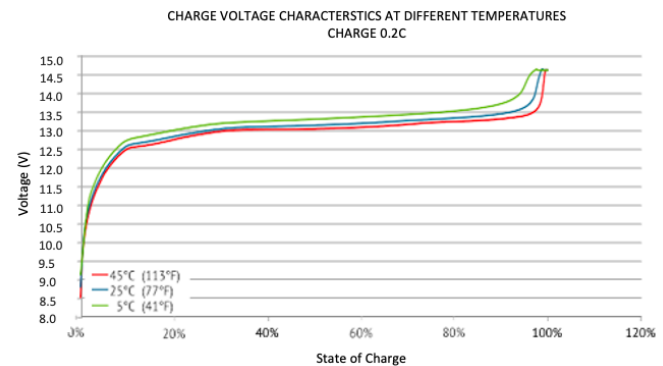
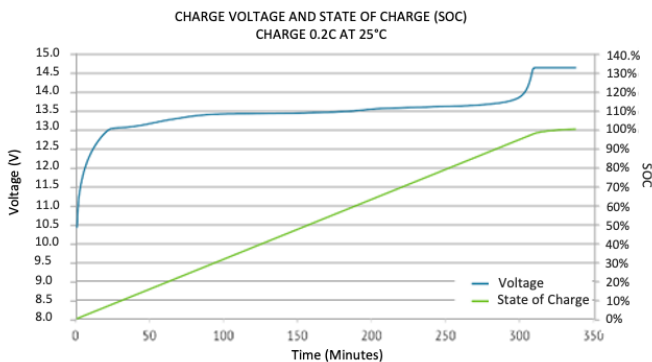
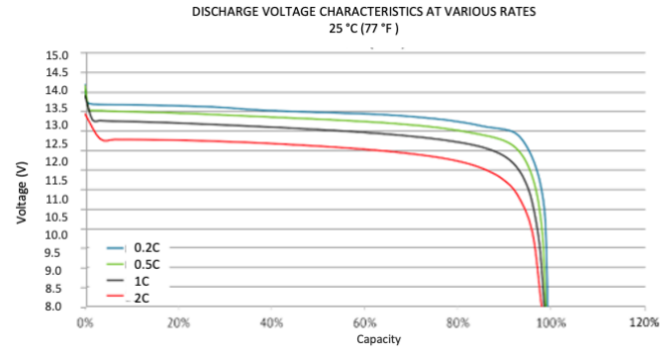
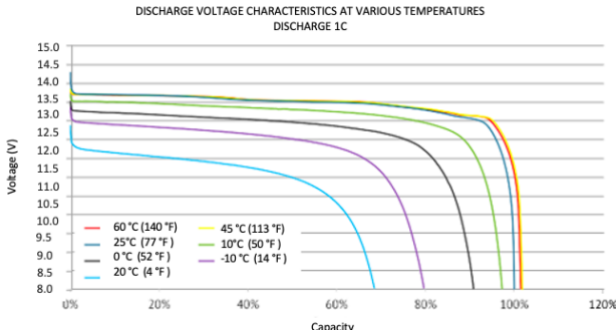
UNDER VOLTAGE	MIN	TYP	MAX
Under Voltage	9.9 V	10 V	10.1V
Under Voltage Delay Time	-	10 sec	-
Under Voltage Release (>30sec)	13.0	13.2V	13.4V
Over VOLTAGE	MIN	TYP	MAX
Over Voltage	14.9 V	15 V	15.1 V
Over Voltage Delay Time	-	10 sec	-
Over Voltage Release	27.9 V	28.0V	28.1V

Over Current	MIN	TYP	MAX
Discharge Overcurrent Trip ¹	43.5A	44.0A	44.5A
Discharge Overcurrent Trip Delay Time ¹	4 sec	5 sec	6 sec
Discharge Overcurrent Release – Remove Load	7 sec	8 sec	9 sec
Short Circuit Current	MIN	TYP	MAX
Short Circuit Current Trip	150A	160A	170A
Short Circuit Current Trip Delay Time ¹	0.6ms	0.9ms	1.2ms
Short Circuit Current Release -Remove Load	4 sec	5 sec	6 sec
Charge Current	MIN	TYP	MAX
Charge Overcurrent Trip ¹	21.5A	22.0A	22.5A
Charge Overcurrent Trip Delay Time ¹	4sec	5sec	6sec

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Mechanical Specifications

Dimensions (L x W x H)	328 x 172 x 232 mm (12.9" x 6.8" x 9.1")
Weight	30 lbs (13.6kg)
Terminal Type	M8 x 1.25 x 12mm
Terminal Torque	80 - 100 in-lbs (9 - 11 N-m)
Case Material	ABS
Enclosure Protection	IP67
Dimensions (L x W x H)	328 x 172 x 232 mm (12.9" x 6.8" x 9.1")

Interface

Digital	SMBus Rev1.1 via an RJ45 Connector RJ45 Connector Pinouts: 7 - SDL 6 - SCL 8 - ENBL 1 - P-
State of Charge (SOC)	5 LED Display with push button

Charger Settings at room temperature of 23±2°C:

Use general purpose lead acid charger:
Maximum 27V 22.5A
Recommended 27V 8A

Compliance Specifications

Certifications	UN38.3 (battery) CE (battery) UL1642 & IEC62133 (cells)
Shipping Classification	UN 3480, CLASS 9

