

# 12.8V-42Ah-538Wh-SP

LiFePO<sub>4</sub> | Voltage: 12.8V | Capacity: 90Ah | Energy: 1152Wh

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.

This Lithium Iron Phosphate (LiFePO<sub>4</sub>) battery pack is 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

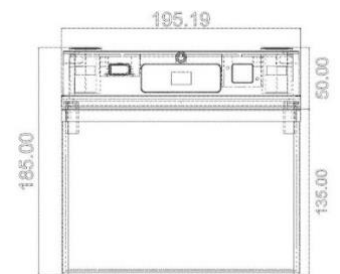
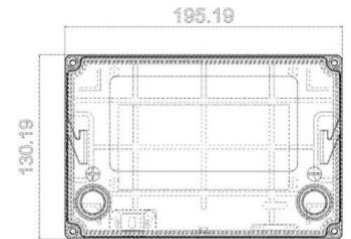
The Battery Management System (BMS) is designed and built by Teviot Technology.

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

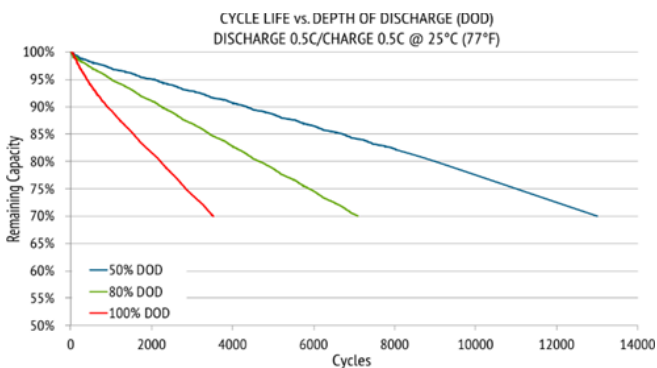
UL IECC 26650 cells incorporating ceramic coated separators for higher reliability and safety.

Customer specific parametric controls are an option and could be set up in the Teviot's BMS.

Five-Segment State of Charge (SOC) display, press button operation, with an accuracy of ±1% and a resolution of 20%



ABSOLUTE MAXIMUM RATINGS	MIN	TYP	MAX
Supply Voltage (P+ to P-) – (suppressed load dump and reverse polarity compliant)	-28 V	-	80V
Operating Temperature (model dependent)	-30°C	-	60°C
Storage Temperature	-40°C	-	85°C



UNDER VOLTAGE	MIN	TYP	MAX
Cell Under Voltage <sup>1</sup>	9.9 V	10.0 V	10.1V
Cell Under Voltage Delay Time	-	10 sec	-
Cell Under Voltage Release <sup>1</sup>	-	12.2 V	-

Over VOLTAGE	MIN	TYP	MAX
Cell Under Voltage <sup>1</sup>	14.9 V	15.0 V	15.1V
Cell Under Voltage Delay Time	-	10 sec	-
Cell Under Voltage Release <sup>1</sup>	-	13.2 V	-

OPERATING PARAMETERS (AT TA = 25°C)	MIN	TYP	MAX
Quiescent Current (at VCELL = 3.3V)	-	10 mA	-
Quiescent Current (sleep mode)	-	-	400 µA
Continuous Load	-	-	20 µA

UNDER TEMPERATURE	MIN	TYP	MAX
Charge Under Temperature Trip <sup>1</sup>	-	-5 °C	-
Discharge Under Temperature Trip <sup>1</sup>	-	-25 °C	-
Under Temperature Release <sup>1</sup> (hysteresis)	-	10 °C	-

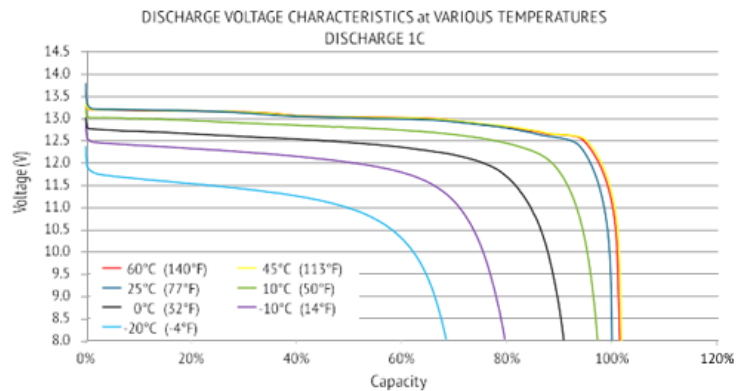
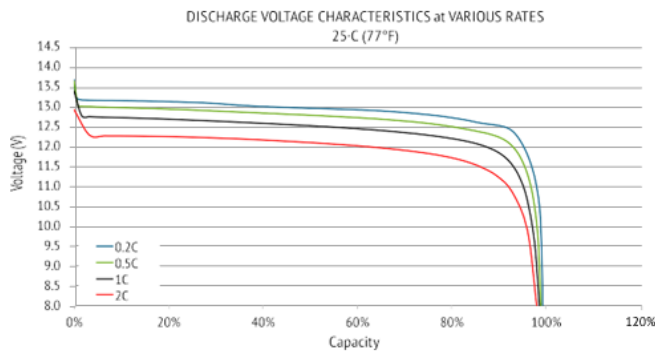
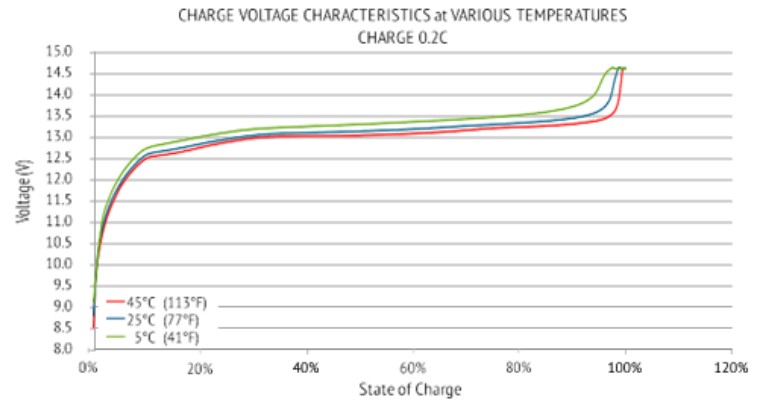
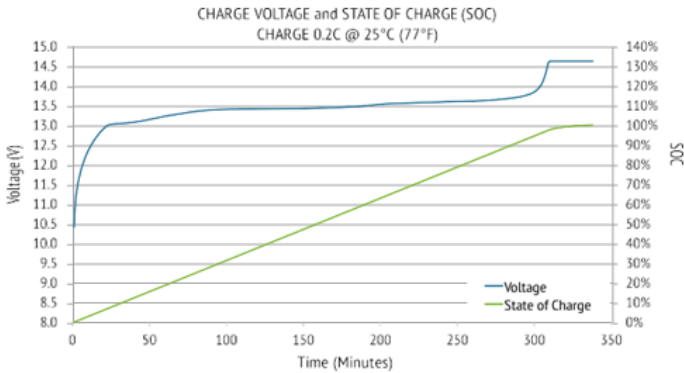
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OPERATING PARAMETERS (AT T <sub>A</sub> = 25°C)	MIN	TYP	MAX
Quiescent Current (at V <sub>CELL</sub> = 3.3V)	-	1 mA	-
Quiescent Current (sleep mode)	-	-	400 µA



## MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	195 x 130 x 185 mm
Weight	11.9 lbs (5.4 kg)
Terminal Type	M6 x 1.25 x 12mm
Terminal Torque	80 - 100 in-lbs (9 - 11 N-m)
Case Material	ABS
Enclosure Protection	IP65
Cell Type - Chemistry	Cylindrical - LiFePO <sub>4</sub>

## COMPLIANCE SPECIFICATIONS

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

