

12.8V-90Ah-1152Wh-SP

LiFePO₄ | Voltage: 12.8V | Capacity: 90Ah | Energy: 1152Wh

IEC 62133, UN 38.3, UL 2054



FEATURES:

Wide temperature range of operation (three options to choose from)

Built in thermal management system (heating and cooling)

Can be connected in Series and Parallel – auto balancing function

Resilient to Suppressed Load dump ISO pulses

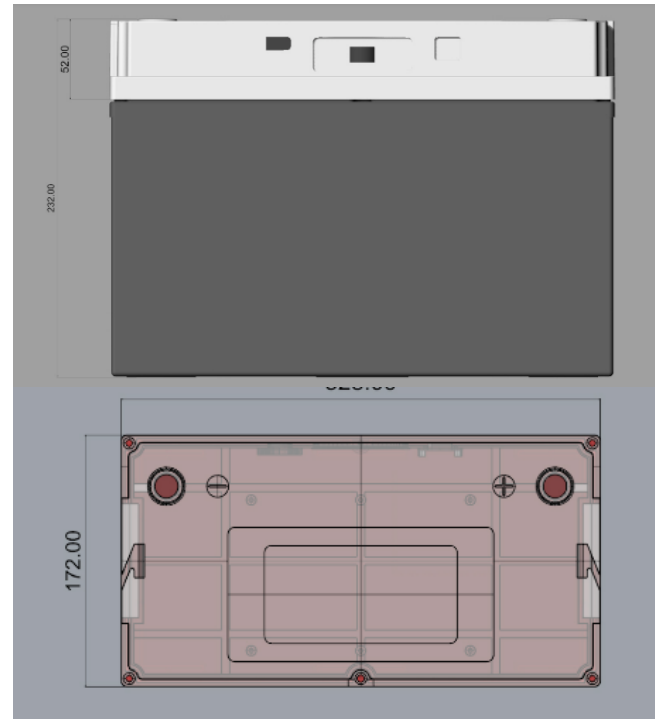
Designed for Auxiliary applications in ICE and Electric Vehicles

Deep discharge capable

“Boost Mode™” – Battery goes to a SLEEP state for up to 6 months to “save” enough energy for the next restart cycle to eliminate the need of an external Boost charger – designed for Marine, RV and Automotive applications.

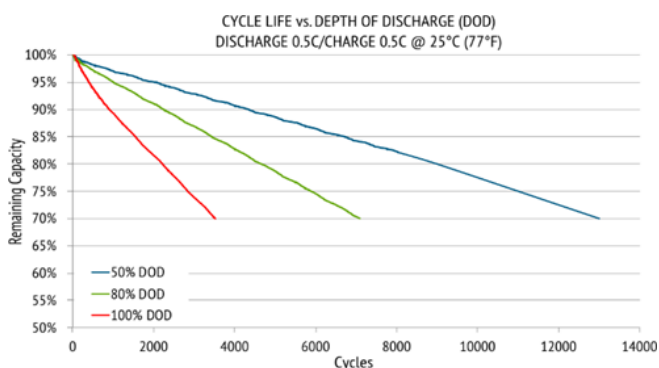
Can be commanded to SLEEP (battery output OFF) by CAN or I/O or button press

Compatible with AGM charging systems



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

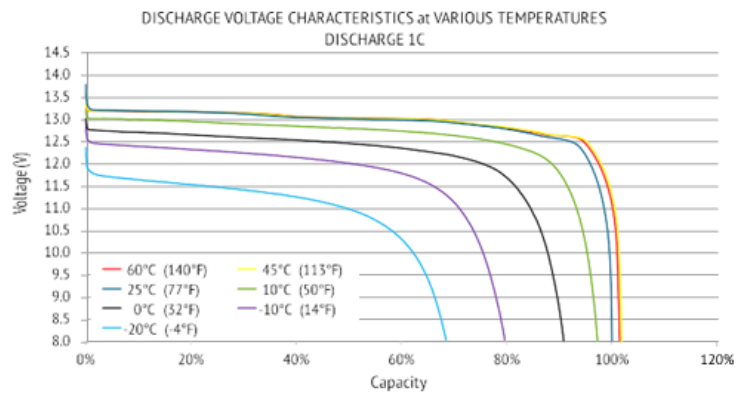
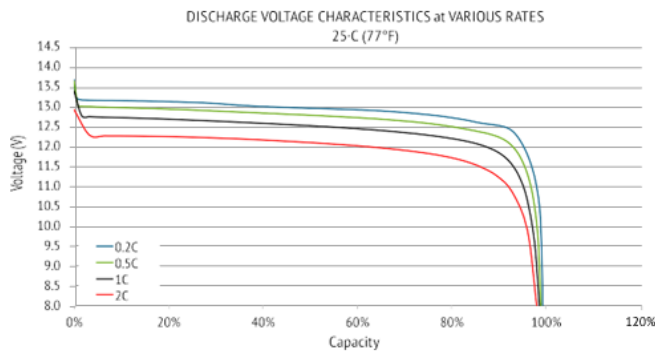
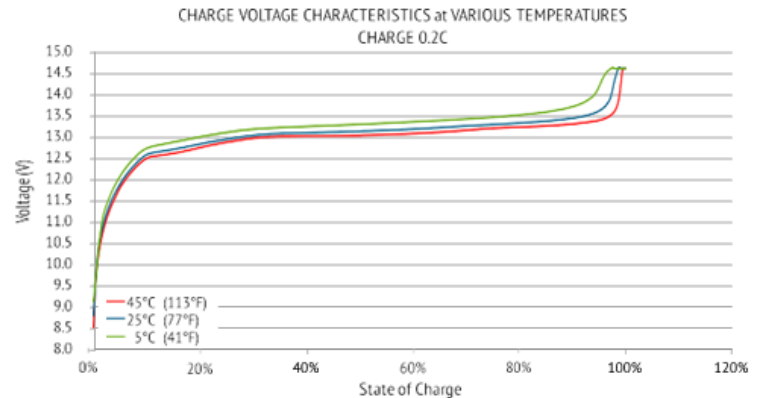
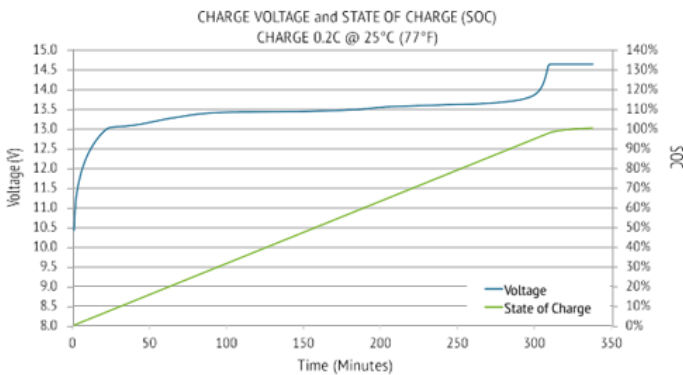
UNDER VOLTAGE	MIN	TYP	MAX
Cell Under Voltage ¹	11.6 V	11.8 V	12.0 V
Cell Under Voltage Delay Time ¹	-	10 sec	-
Cell Under Voltage Release ¹	-	12.2 V	-
OPERATING PARAMETERS (AT TA = 25°C)	MIN	TYP	MAX
Quiescent Current (at VCELL = 3.3V)	-	1 mA	-
Quiescent Current (sleep mode)	-	-	400 µA
OVER VOLTAGE	MIN	TYP	MAX
Cell Overvoltage ¹	14.0 V	14.1 V	14.2 V
Cell Overvoltage Delay Time ¹	-	10 sec	-
Cell Overvoltage Release ¹	-	13.9 V	-
UNDER TEMPERATURE	MIN	TYP	MAX
Charge Under Temperature Trip ¹	-	-5 °C	-
Discharge Under Temperature Trip ¹	-	-25 °C	-
Under Temperature Release ¹ (hysteresis)	-	10 °C	-



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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

COMPLIANCE SPECIFICATIONS

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

INTERFACE:

CAN Open, J1939, RV-C or NMEA2000
Bluetooth LE profile
Digital I/O for Shutdown and Startup
5 LED display for SOC

MODELS:

Standard	12.8V90AH1152WH-SP
Low temperature	12.8V90AH1152WH-LT
Low/High Temperature	12.8V90AH1152WH-AT

