

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

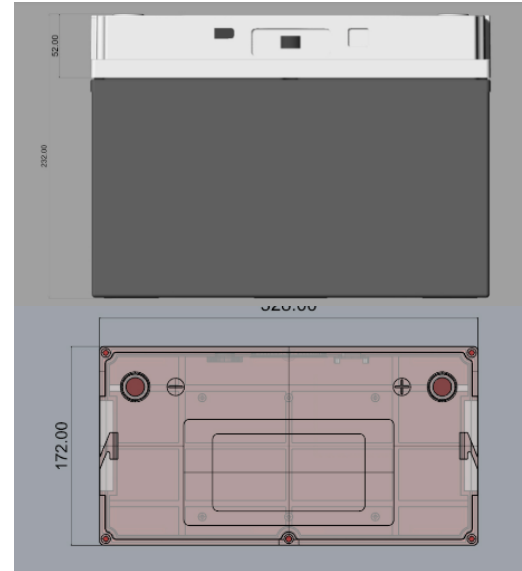
Designed for Auxiliary applications in ICE and Electric Vehicles

Deep discharge capable

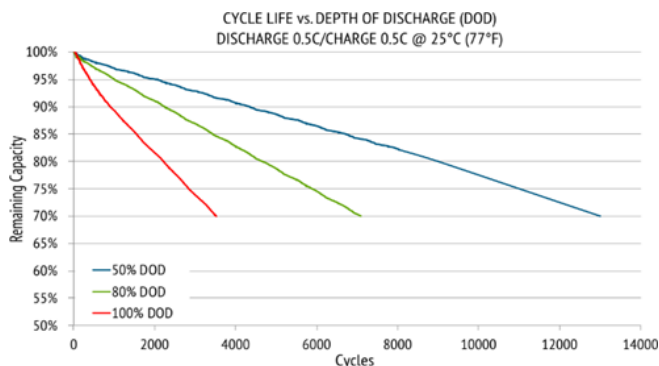
“Boost Mode™” – Battery goes to a SLEEP state for up to 6 months to “save” enough energy for the next restart cycle to eliminate the need of an external Boost charger – designed for Marine, RV and Automotive applications.

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

Compatible with AGM charging systems



Under Temperature	MIN	TYP	MAX
Charge Under Temperature Trip	-	-5 °C	-
Discharge Under Temperature Trip	-	-25 °C	-
Under Temperature Release ¹ (hysteresis)	-	10 °C	-

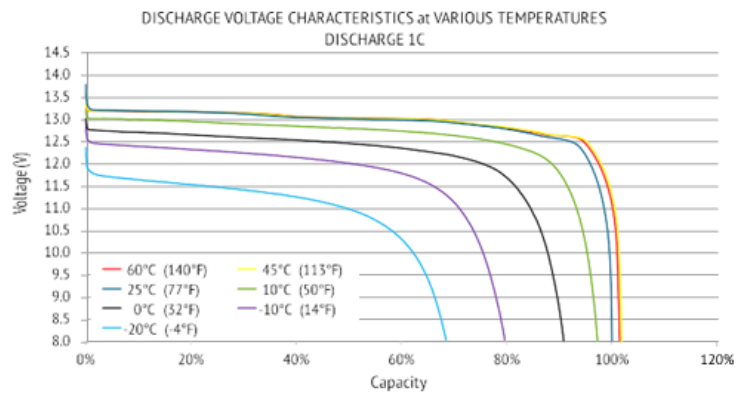
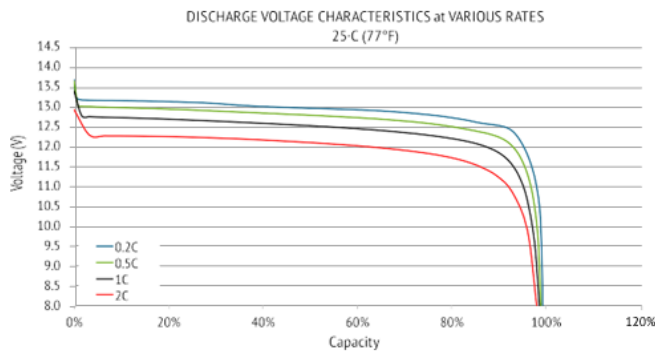
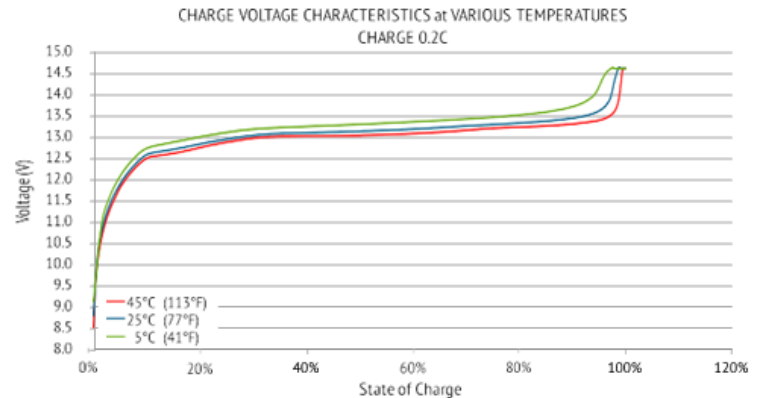
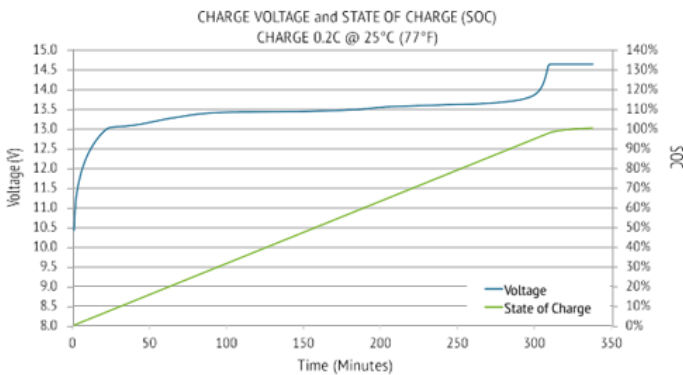


UNDER VOLTAGE	MIN	TYP	MAX
Under Voltage	11.6 V	11.8 V	12.0 V
Under Voltage Delay Time	2 sec	2 sec	4 sec
Under Voltage Release (>30sec)	11.8 V	12.0 V	12.2V
Over VOLTAGE	MIN	TYP	MAX
Over Voltage	14.8 V	15.0 V	15.2V
Over Voltage Delay Time	2 sec	2 sec	4 sec
Over Voltage Release	14.2V	14.4 V	14.6V
Over Current	MIN	TYP	MAX
Discharge Overcurrent Trip ¹	103A	105A	107A
Discharge Overcurrent Trip Delay Time ¹	5 sec	6 sec	7 sec
Discharge Overcurrent Release	3 release attempts in 30seconds, Or shutdown		
Short Circuit Current	MIN	TYP	MAX
Short Circuit Current Trip	150A	160A	170A
Short Circuit Current Trip Delay Time ¹	0.3ms	0.7ms	1.2ms
Short Circuit Current Release	Shutdown/Wakeup by Start		
Charge Current	MIN	TYP	MAX
Charge Overcurrent Trip ¹	33A	34A	35A
Charge Overcurrent Trip Delay Time ¹	5sec	6sec	7sec

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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

Charger Recommended

Use general purpose lead acid charger - maximum 14.4V 20A.

