

12.8V-90Ah-1152Wh-XX

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

IEC 62133, UN 38.3, UL 2054



FEATURES:

A wide operating temperature range of -25°C to 80°C

Built in thermal management system with heating pad

- Low Temperature Model: 12.8V90AH1152WH-LT
- High Temperature Model: 12.8V90AH1152WH-HT
- Standard Model: 12.8V90AH1152WH-SP

Can be connected in series and in parallel

Resilient to suppressed load dump ISO pulses

CAN enabled

Can be commanded to SLEEP (battery output OFF) by CAN

Compatible with AGM charging systems



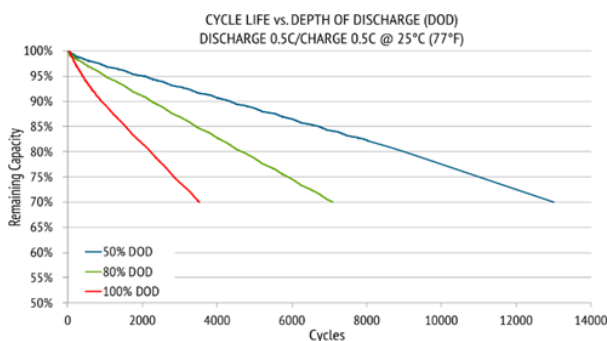
Under Temperature	MIN	TYP	MAX
Charge Under Temperature Trip	-2 °C	0 °C	2 °C
Charge Under Temperature Release/Warning	3 °C	5 °C	7 °C
Discharge Under Temperature Trip	-23 °C	-20 °C	-18 °C
Discharge Under Temp Release/Warning	-18 °C	-15 °C	-13 °C
Over Temperature	MIN	TYP	MAX
Charge Over Temperature Trip	58 °C	60 °C	62 °C
Charge Over Temperature Release/Warning	53 °C	55 °C	57 °C
Discharge Over Temperature Trip	58 °C	60 °C	62 °C
Discharge Over Temp Release/Warning	53 °C	55 °C	57 °C
Quiescent Current	MIN	TYP	MAX
At 3.65V cell voltage	-	-	12mA
Shutdown Mode	-	-	500µA

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	105A	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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FEATURE SHEET - REV1.2

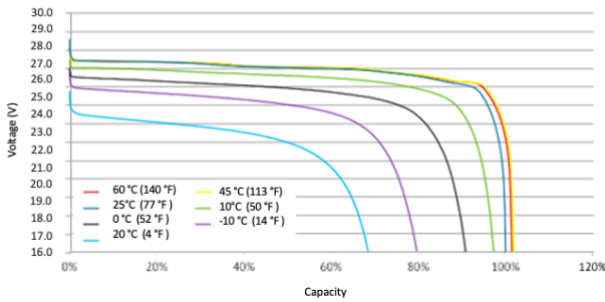
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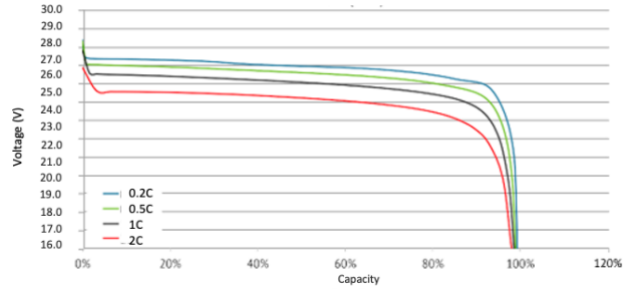
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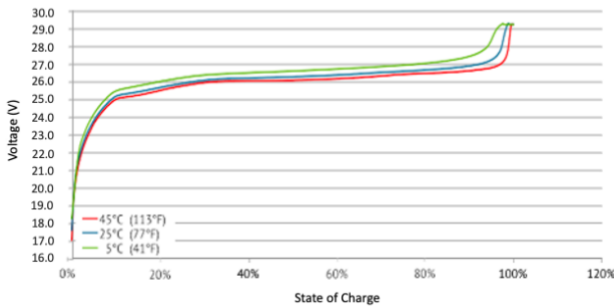
DISCHARGE VOLTAGE CHARACTERISTICS AT VARIOUS TEMPERATURES
DISCHARGE 1C



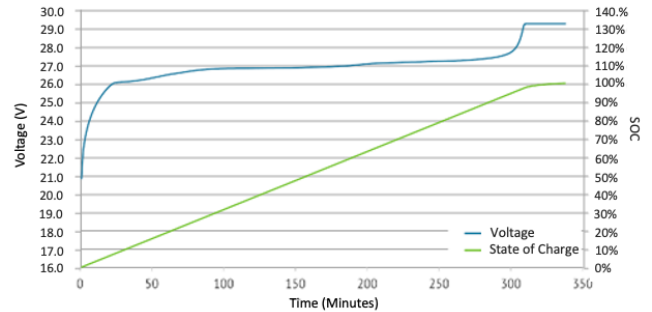
DISCHARGE VOLTAGE CHARACTERISTICS AT VARIOUS RATES
25 °C (77 °F)



CHARGE VOLTAGE CHARACTERISTICS AT DIFFERENT TEMPERATURES
CHARGE 0.2C



CHARGE VOLTAGE AND STATE OF CHARGE (SOC)
CHARGE 0.2C AT 25°C



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

