

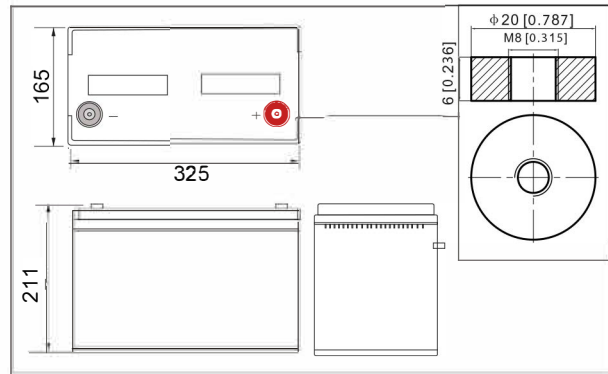
ULTRAMAX[®]

Bluetooth Lithium Iron Phosphate (LiFePO4) Battery Specification (Low temperature charging using Heat elements)

SLAUMXLI100-12HTRBLU (12.8V100AH)



Outer dimensions-terminals (mm)



Specifications

Nominal Voltage		12.8V
Rated capacity (20 hour rate)		102Ah
Weight Approx		12.5 Kg
Charge Discharge Properties	Efficiency of Charge	100% at 0.5C
	Efficiency of Discharge	97% at 1C
	Cycle Life	>80% Retention at 2000 Cycles
	Over current protection 400±20A	10ms-300ms
Internal Resistance		<10 mΩ
Charge Characteristics	Charge Voltage	14.6±0.1V
	Charge Current	≤100A
	Charge Cut-off Voltage	14.6±0.1V
Discharge Characteristics	Max Continuous Current	100A
	Peak Discharge Current	300A(<3s)
	Discharge Cut-off Voltage	10V
Temperature	Charge Temperature	0°C-45°C(32°F-113°F)
	Discharge Temperature	-20°C-60°C(-4°F-140°F)
	Storage Temperature	0°C-40°C(32°F-104°F)
Humidity	5%≤RH≤85%	
Shell material	ABS plastic	

Heating Element Operation

Lithium Phosphate batteries get irreversibly damaged if charged when temperature is below 0°C. To circumvent this the battery pack is wrapped in a heating mat to increase cell temperature when charging and temperature drops below 0°C. Heating element requires 50W which it draws from the charger when charging.

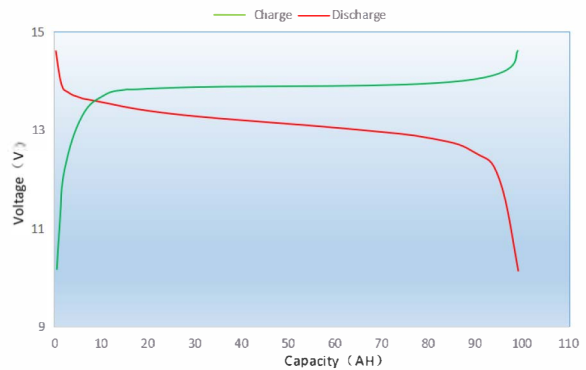
Heating Mat operates during,

- 1- Battery Charging.
- 2- Temperature Below 0°C.

Heating Stops,

- 1- When Temperature of the pack increases to above 5°C
- 2- Maximum Heating time is 30 minutes. After which Heating will stop automatically

Characteristics Curves



Bluetooth APP discription

For Apple mobile phone, search and download "UMXLI Battery"
For Android mobile phone, search and download "UMXLI BMS"

Interface of APP:

