

**Specifications:**

<b>Nominal Voltage</b>	12.8V
<b>Nominal Capacity</b>	40.0Ah @0.2C @25°C
<b>Weight</b>	Approx. 5.75Kg ±0.1kg (12.67lbs)
<b>Energy</b>	512W/h
<b>Internal Resistance</b>	≤ 30mΩ
<b>Efficiency</b>	99 %
<b>Terminal</b>	R6.2
<b>Discharge</b>	
<b>Continuous Current</b>	80A
<b>Pulse Current</b>	100A @5s
<b>Recommended Volt. Disconnect</b>	10V
<b>BMS Cut-Off Voltage</b>	8V
<b>Reconnect Voltage</b>	9.2V
<b>Short Circuit Protection</b>	200~600 μs
<b>Charge</b>	
<b>Charge Voltage</b>	14.4~14.8V
<b>Recommended Float Voltage</b>	13.8V
<b>Recommended Charge Current</b>	20A
<b>Maximum Charge Current</b>	30A
<b>BMS Charge Cut-off Voltage</b>	15.6V
<b>Charge Method</b>	CC/CV, use special LFP Charger
<b>Max. Modules in Series/Parallel</b>	4S/20P
<b>Operation Temperature Range</b> <sup>1</sup>	Discharge: -30°C~60°C Charge: 0°C~45°C
<b>Storage Temperature Range</b>	-40°C~60°C
<b>BMS High Temperature Cut-off</b>	80°C
<b>Humidity Range</b> <sup>1</sup>	Charge/Discharge: RH= 85% <sup>2</sup> Storage: RH= 50% <sup>2</sup>
<b>BP Protection - BMS Features</b> <sup>3</sup>	OVP, UVP, SC, TEMP, BF
<b>Cycle Life</b>	>2000cycles @1C,100% DOD
<b>Self Discharge</b>	2% per Month
<b>Battery Housing</b>	ABS, UL-94 V-0
<b>Housing Protection</b>	IP56
<b>Shipping Classification</b>	UN3480, Class 9,UN38.3
<b>Optional</b>	Bluetooth/RS485/RS232/SMBus/CANBus/ SOC LED/LCD Indicator

High performance, completely maintenance-free, low self-discharge.

Floating & standby use: up to 10 years @25°C.

100% precise quality testing, stable quality and high reliable performance.

Uniform output voltage in all the discharge curve.

Provide full nominal capacity, even at high currents.

Energy density: up to 130Wh/kg.

Capacity density: up to 145Ah/kg.

Suitable for standby power and energy storage power use.

Long storage time.

Cycle use: Up to 2000 cycles at 100% DOD.

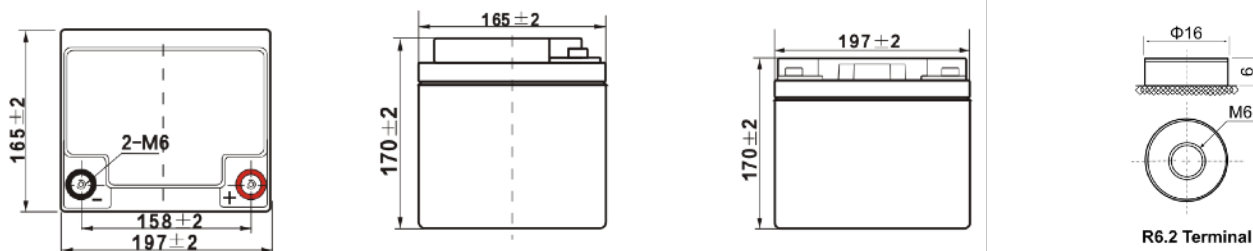
**Applications:**

- Telecommunications
- Wheelchairs and Scooters
- Uninterruptible Power Supply (UPS)
- Golf trolleys and Golf cart
- DC power supply
- Railway and Marine systems
- Electric Power System (EPS)
- Electric tools
- Emergency backup PS
- Medical equipments

**Dimensions:**

Length	197±1mm (7.76in)
Width	165±1mm (6.50in)
Height	170±1mm (6.69in)
Total Height	170±1mm (6.69in)

**Technical Drawings:**

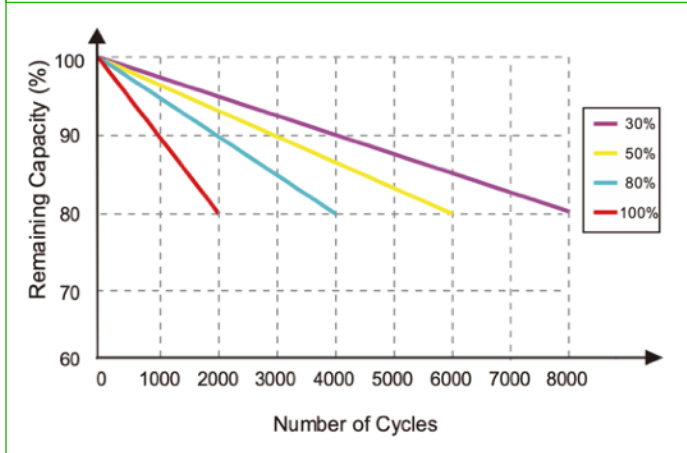


(1) When the environment temperature is higher than 45°C, please pay attention to ventilation and heat rejection.

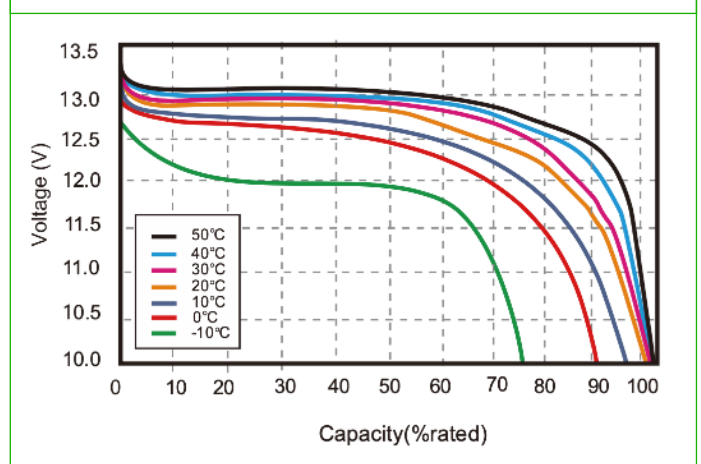
(2) When humidity is higher than 85%, pay attention to protect, easily oxidized components note sealed.

(3) OVP=Over charge protection; UVP=Over discharge protection; SC=Short-circuit; TEMP=Temp. levels protection; BF=Balanced Function

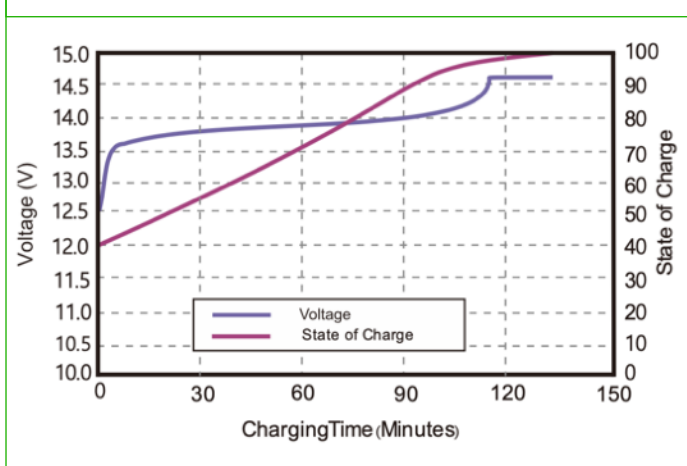
Cycle Life vs. Depth of Discharge (DOD)  
Discharge @0.1C, 25°C



Discharge Capacity at Various Temperatures Discharge @1C



State of Charge Curve @0.5C, 25°C



Charging Characteristics @0.5C, 25°C

