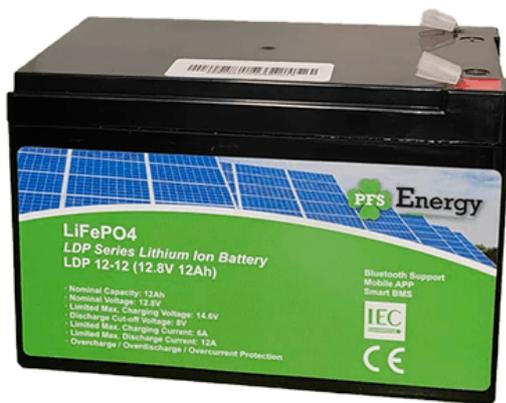


LDP 12-12 (12.8V 12Ah)

lithium iron phosphate (LiFePO4) battery



Características Principales

- Mayor densidad energética, menor peso con las mismas dimensiones
- Mayor capacidad de carga y descarga. Estas baterías pueden usarse para aplicaciones de con altos ratios de carga y descarga.
- Ciclo de vida diez veces mayor a las baterías de plomo.
- Protección interna a través de BMS inteligente.
- Total aprovechamiento de la energía, estas baterías se pueden descargar al 100% en cambio las de plomo solo se pueden descargar un 40%.
- Monitorización a través de bluetooth.

Aplicaciones

Almacenamiento de energía solar

Sistemas de iluminación solar

Aplicaciones de respaldo de energía

Aplicaciones de movilidad eléctrica

Aplicaciones industriales



ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8 V
Nominal Capacity	12 Ah
Capacity @ 0.5C	120 min
Energy	153.6 Wh
Resistance	≤70 mΩ
Self Discharge	<1.5% Per Month
Maximum Modules In Series	Up to 4S (51.2V)

CHARGE SPECIFICATIONS

Recommended Charge Current	2.4 A
Maximum Charge Current	6 A
Recommended Charge Voltage	14.2 V-14.6 V
BMS Charge Voltage Cut-Off	15.2 V (3.8 ±0.025 VPC) (1.1 ±0.4 s)
Reconnect Voltage	14.4 V (3.6 ±0.05 VPC)
Charging Method	CC-CV

DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	12 A
Peak Discharge Current	30 A (<3s)
Recommended Low Voltage Disconnect	11 V (2.75 VPC)
BMS Discharge Voltage Cut-Off	8 V (2.0 ±0.08 VPC) (20 ±6 ms)
Reconnect Voltage	10 V (2.5 ±0.05 VPC)
Short Circuit Protection	200-600 μs

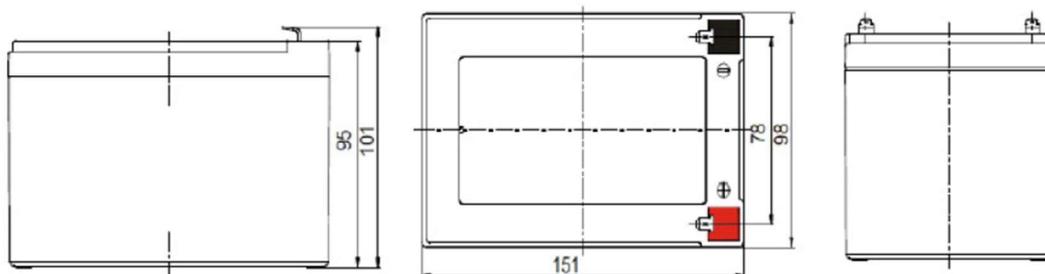
TEMPERATURE SPECIFICATIONS

Discharge Temperature	- 4 °F to 140 °F (-20°C to 60 °C)
Charge Temperature	32 °F to 140 °F (0 °C to 60 °C)
Recommend Storage Temperature	32°F to 104 °F (0°C to 40 °C)

MECHANICAL SPECIFICATIONS

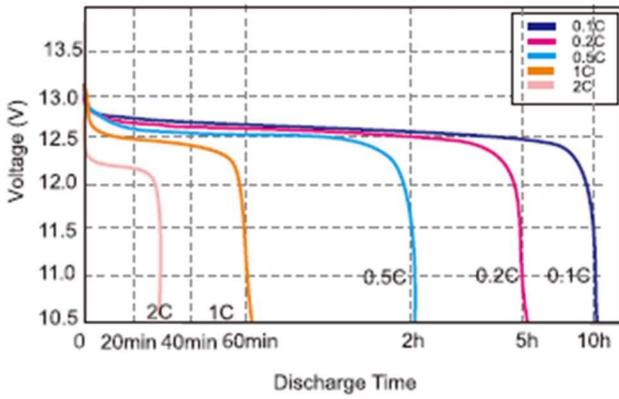
Dimensions (L x W x H)	5.9 x 3.9 x 4.0 " 151 x 98 x 101 mm
Weight	1.6 Kg
Terminal Type	F2
Case Material	ABS
Enclosure Protection	IP55

DIMENSIONAL SPECIFICATIONS

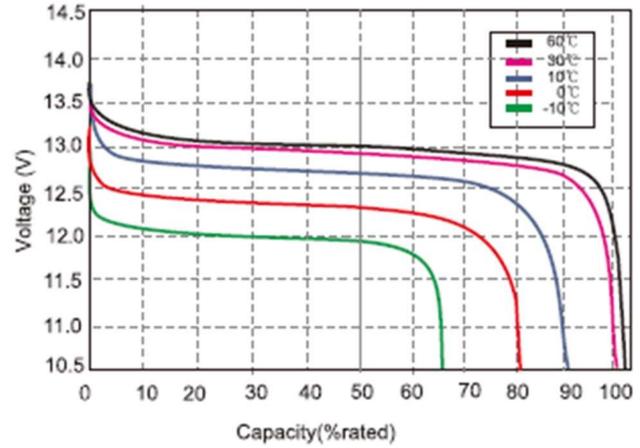


Performance curve

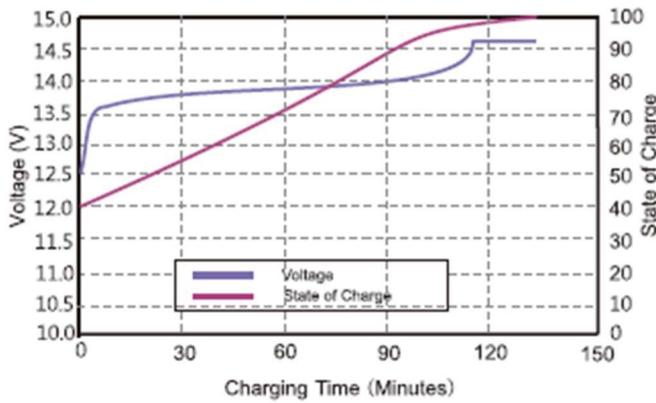
Different Rate Discharge Curve @25°C



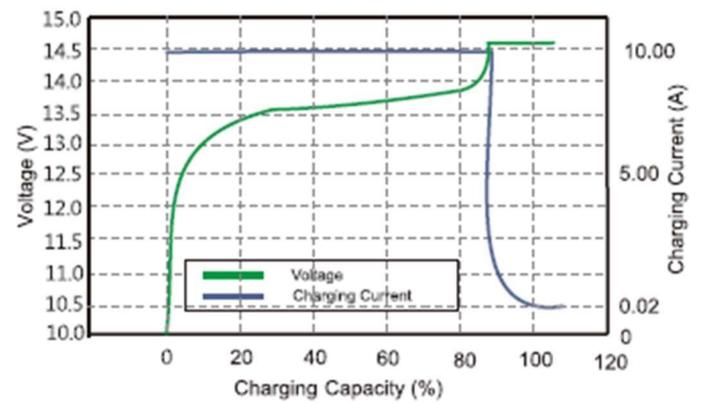
Different Temperature Discharge Curve @0.5C



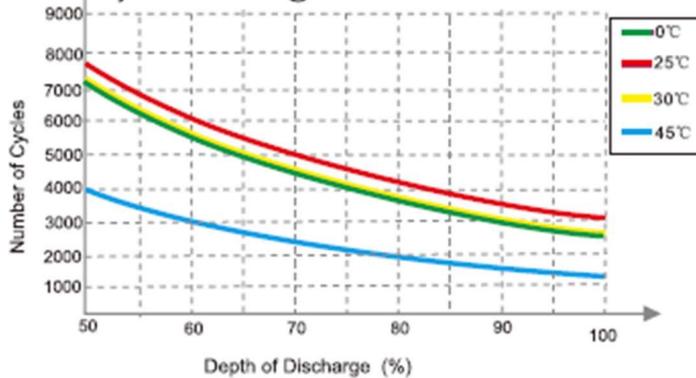
State of Charge Curve @0.5C 25°C



Charging Characteristics @0.5C 25°C



Different DOD Discharge and Different Temperature Cycle Life Curve @0.2C



Different Temperature Self Discharge Curve

