

### LiFePO4 12.8V - 100AH Battery

#### ELECTRICAL PERFORMANCE

|                  |                  |
|------------------|------------------|
| Nominal Voltage  | 12.8 V           |
| Nominal Capacity | 100 Ah           |
| Capacity @ 20A   | 300 min          |
| Energy           | 1280 Wh          |
| Resistance       | ≤20 mΩ @ 50% SOC |
| Self Discharge   | <3% / Month      |
| Cells            | LFP Cell 3.2V    |

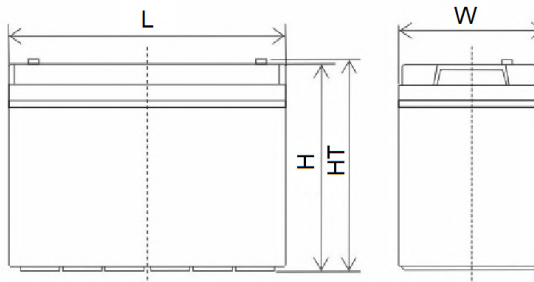
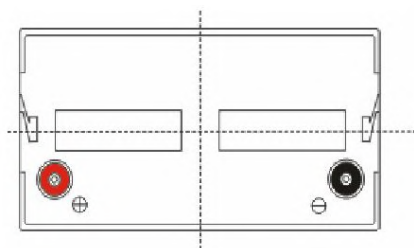
#### CHARGE PERFORMANCE

|                             |             |
|-----------------------------|-------------|
| Recommended Charge Current  | 20A         |
| Max Charge Current          | 50 A        |
| Charge Cut-Off Voltage      | <14.6 V     |
| Reconnect Voltage           | >14 V       |
| Balancing Voltage           | <13.6 V     |
| Maximum Batteries in Series | 4(Optional) |
| Bluetooth Test Window       | (Optional)  |
| LED display                 | (Optional)  |

#### DISCHARGE PERFORMANCE

|                                      |                  |
|--------------------------------------|------------------|
| Continuous Discharge Current         | 50A              |
| Maximum continuous Discharge Current | 100 A            |
| Peak Discharge Cut-Off Current       | 300 A (5 ~15 ms) |
| Discharge Cut-Off Voltage            | >10 V            |
| Reconnect Voltage                    | >11.2 V          |
| Short Circuit Protection             | 200 ~ 600 μs     |

#### DIMENSIONS



| L mm | W mm | H mm | HT mm |
|------|------|------|-------|
| 330  | 172  | 223  | 227   |



#### MECHANICAL PERFORMANCE

|                       |                   |
|-----------------------|-------------------|
| Dimension (L x W x H) | 330 x 172 x223 mm |
| Approx. Weight        | 10.5 kg           |
| Terminal Type         | M8                |
| Terminal Torque       | 9 ~ 11 N-m        |
| Case Material         | ABS               |
| Enclosure Protection  | IP65              |

#### TEMPERATURE PERFORMANCE

|                          |             |
|--------------------------|-------------|
| Discharge Temperature    | -20 ~ 60 °C |
| Charge Temperature       | 0 ~ 45 °C   |
| Storage Temperature      | -5 ~ 35 °C  |
| High Temperature Cut-Off | 65 °C       |
| Reconnect Temperature    | 48 °C       |

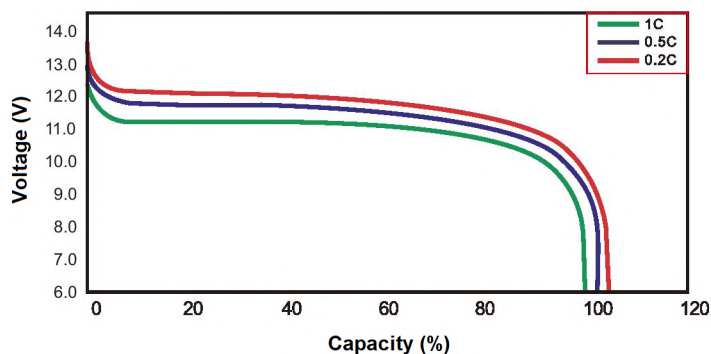
#### COMPLIANCE

|                         |                               |
|-------------------------|-------------------------------|
| Certifications          | CE, UN38.3, UL1973 & IEC62619 |
| Shipping Classification | UN 3480, CLASS 9              |

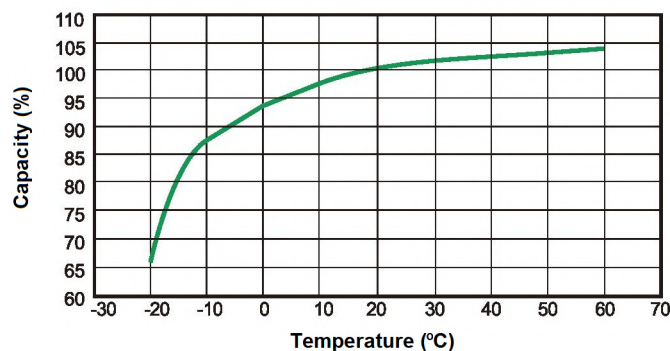
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#### PERFORMANCE CHARACTERISTICS

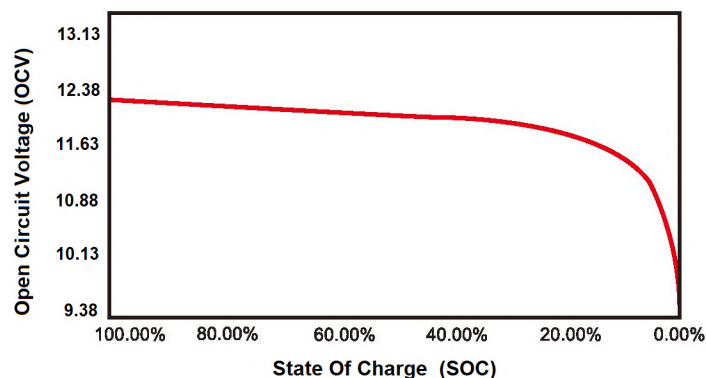
Discharge Performance at 25 °C



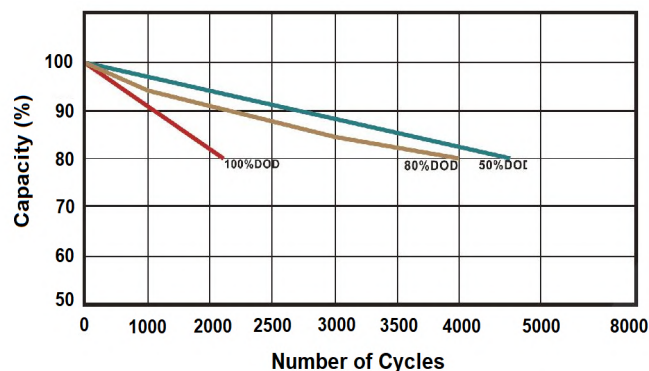
Temperature vs Capacity at 0.2C



State Of Charge vs Open Circuit Voltage



Cycle Life vs D.o.D. at 25 °C, 0.2C



#### FEATURES & BENEFITS



##### High cycle life

>4600 cycles @ 50% DoD for effectively lower total cost of ownership.



##### Longer service life

Low maintenance batteries with stable chemistry. Easily monitor state of charge (SoC) of smart models.



##### Built in circuit protection

Battery Management Systems (BMS) are incorporated against abuse.



##### Better storage

Up to 6 months thanks to its extremely low self discharge (LSD) rate and no risk of sulphation.



##### Quickly recharge

Save time and increase productivity with less down time thanks to superior charge/discharge efficiency.



##### Extreme heat tolerance

Suitable for use in a wider range of applications where ambient temperature is unusually high: up to +60°C.



##### Lightweight

Lithium batteries provide more Wh/Kg while also being up to 1/3 the weight of its SLA equivalent.

#### APPLICATIONS

Lithium Iron Phosphate can be used in most applications that use Lead Acid, GEL or AGM type batteries. Suitable applications include:

- Caravan
- Marine
- Golf Car
- Buggies
- Solar Storage
- Remote Monitoring
- Switching applications and more

#### CAUTIONS

- Do NOT short circuit, crush or disassemble.
- Do NOT heat or incinerate.
- Do NOT immerse in any liquid.
- Store at 50% capacity. Recharge every 3 months. The storage area should be clean, cool, dry and ventilated.