VISION GROUP
Shenzhen Center Power Tech.Co.Ltd,.

# Lithium Iron Phosphate Battery
# V-LFP12V100Ah


| 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 | Prismatic Cell 3.2V100Ah |

| CHARGE PERFORMANCE | |
|---|---|
| Recommended Charge Current | 20 A |
| Maximum Charge Current | 50 A |
| Recommended Charge Voltage | 14.6 V |
| Charge Cut-Off Voltage | <15.2 V (0.5 ~ 1.5 s) |
| Reconnect Voltage | >14.4 V |
| Balancing Voltage | <14 V |
| Extensions(optional) | Bluetooth/Max 4 serial |

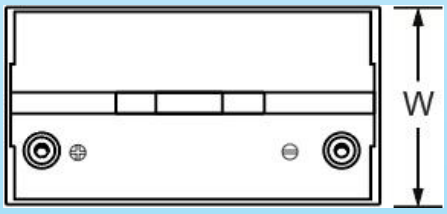
| DISCHARGE PERFORMANCE | |
|---|---|
| Continuous Discharge Current | 50 A |
| Maximum contiuous Discharge Current | 150 A |
| Peak Discharge Cut-Off Current | 450 A(5 ~15 ms) |
| Recommended Low Voltage Disconnect | 10 V |
| Discharge Cut-Off Voltage | >8.4 V (50 ~ 150 ms) |
| Reconnect Voltage | >10 V |
| Short Circuit Protection | 200 ~ 600 μs |

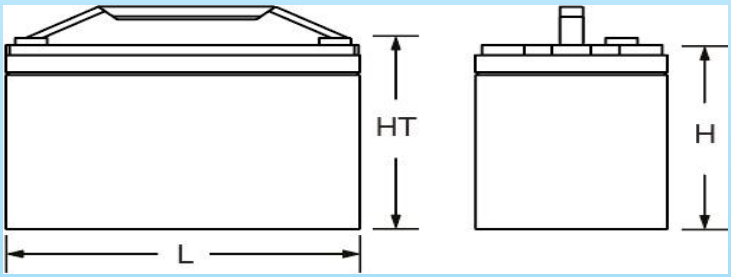
| MECHANICAL PERFORMANCE | |
|---|---|
| Dimension (L x W x H) | 330 x 172 x 223 mm<br>12.99 x 6.77 x 8.8” |
| Approx. Weight | 11.7 kg |
| Terminal Type | M8 |
| Terminal Torque | 80 ~ 100 in-lbs (9 ~ 11 N-m) |
| Bluetooth Test Window | Belt Bluetooth |
| Case Material | ABS |
| Enclosure Protection | IP65 |

| TEMPERATURE PERFORMANCE | |
|---|---|
| Discharge Temperature | -4 ~ 140 ºF (-20 ~ 60 ºC) |
| Charge Temperature | 32 ~ 113 ºF (0 ~ 45 ºC) |
| Storage Temperature | 23 ~ 95 ºF (-5 ~ 35 ºC) |
| High Temperature Cut-Off | 149 ºF (65 ºC) |
| Reconnect Temperature | 118 ºF (48 ºC) |

| COMPLIANCE | |
|---|---|
| Certifications | CE<br>UN38.3<br>UL1973 & IEC62133 |
| Shipping Classification | UN 3480, CLASS 9 |

## OUTLINE DIMENSION




| L mm(”) | W mm(”) | H mm(”) | HT mm(”) |
|---|---|---|---|
| 330 (12.99 ) | 172 (6.77) | 223(8.8) | |

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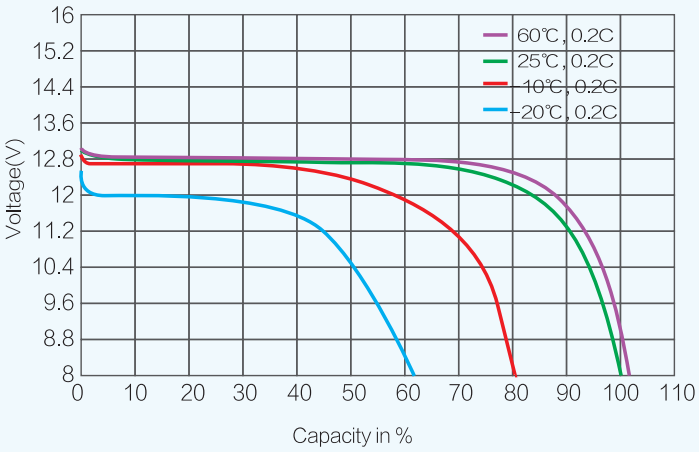
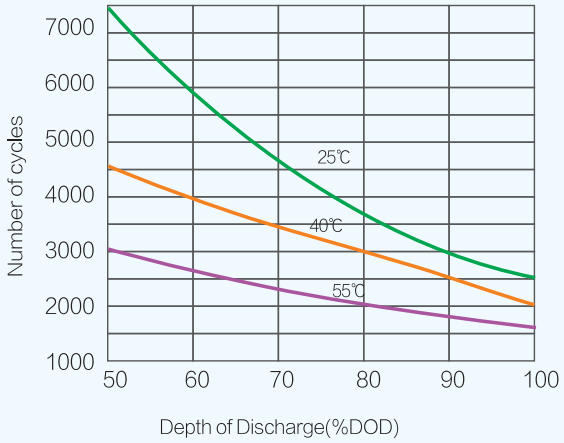
## PERFORMANCE CHARACTERISTICS

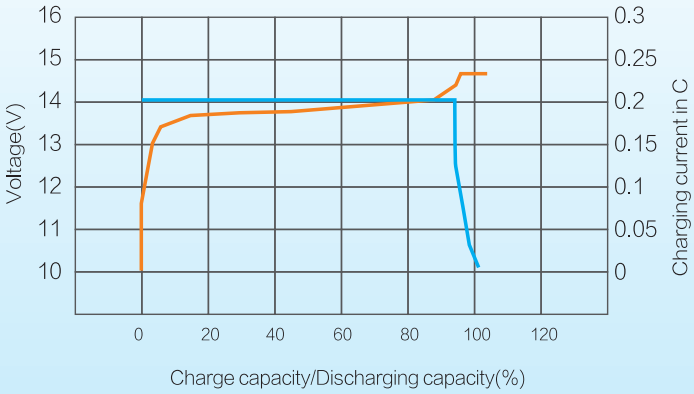
### Discharge curves under differents tempertatures



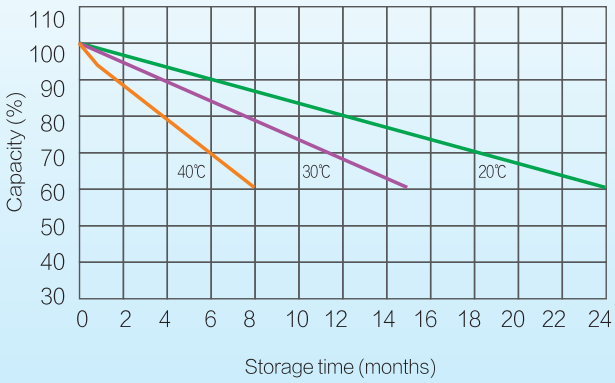

### Cycle life vervus DOD and temperture at 0.2C




### 0.2C CC-CV charge characteristic




### Self-discharge characteristic




## FEATURES & BENEFITS

**High cycle life**
>2000 cycles @80% 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.

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

## APPLICATIONS

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

## CAUTIONS

- Do NOT short circuit, crush or disassemble.
- Do NOT heat or incinerate.
- Do NOT immerse in any liquid.

Performance may vary depending on application. All specifications are subject to change without prior notice to the user. This data is for evaluation purposes only. No guarantee is intended or implied by this data. For clarification and updated information, please contact us.