# S12-135LFP

## $LiFePO_4$ BATTERY

### Safety

- Prismatic $LiFePO_4$ cells offer longer cycle life & added safety
- IEC62133, UL, UN38.3 cell certification
- UN38.3, CE system certification IP65

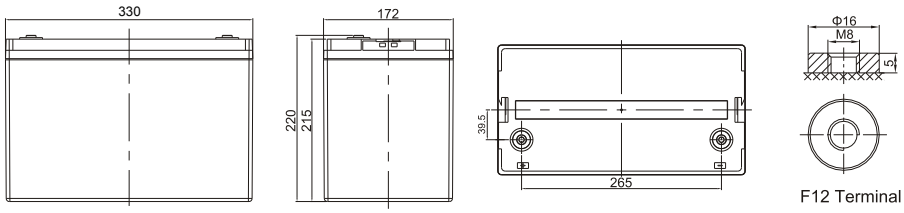
### Design

- standard-size (BCI) ABS container for easy VRLA
- replacement Fast charge/discharge performance
- Maintenance-free operation

### Battery Management System (bms)

- Integrated hardware BMS inside.
- Independent charge & discharge protection
- Over-Voltage Protection (OVP), Low-Voltage Protection (LVP) Over-Current Protection (OCP), Over-Temperature Protection (OTP)


Rolls long-life, high performance Lithium-Iron-Phosphate $LiFePO_4$ battery with exceptional cycle life and is up to 50% lighter than equivalent lead-acid battery models.




ISO9001 ISO14001 OHSAS18001

| SPECIFICATIONS | S12-135LFP |
|---|---|
| PRODUCT DIMENSIONS: (LxWxH incl terminal) | 330mm (13") x 172mm (6.77") x 220mm (8.66") |
| PRODUCT WEIGHT: | 13.5 Kg / 29.5 Lbs |
| NOMINAL VOLTAGE: (V) | 12.8V |
| NOMINAL CAPACITY: (AH) | 135 AH |
| TOTAL ENERGY: (KWh) | 1.728 KWh |
| END OF DISCHARGE VOLTAGE: (V) | 10.0V |
| TERMINAL: | F12 (M8) |
| CYCLE LIFE: | >3500 @ 100% DOD |
| SERIES CONNECTION: | 4 UNITS MAX |
| PARALLEL CONNECTION: | 2 UNITS MAX |

| CHARGING | | |
|---|---|---|
| CHARGE VOLTAGE RANGE: (V) | 14.0 - 14.6V | *DO NOT USE TEMPERATURE COMPENSATION (BTS) |
| RECOMMENDED CHARGE VOLTAGE: (V) | 14.6V | |
| RECOMMENDED CHARGE CURRENT: (AMPS) | | |
| 0~5°C (32-41°F) | ≤0.1C | 13.5. A |
| 5~10°C (41-50°F) | ≤0.2C | 27 A |
| 10~35°C (50-95°F) | ≤0.5C | 67.5 A |
| 35~50°C (95-122°F) | ≤0.2C | 27 A |
| CHARGE MODE: | CHARGE AT RECOMMENDED VOLTAGE & CURRENT BY TEMPERATURE UNTIL CHARGE CURRENT DROPS TO ≤ 0.05C (CC,CV) | |
| MAX CHARGE CURRENT | 100 A | |
| MAX DISCHARGE CURRENT | 100 A | |
| CHARGE TEMPERATURE RANGE: | 0°C~50°C (32~122°F) | |
| DISCHARGE TEMPERATURE RANGE: | -20°~55°C (-4~131°F) | |
| STORAGE TEMPERATURE RANGE: | -20°~60°C (-4~140°F) | |

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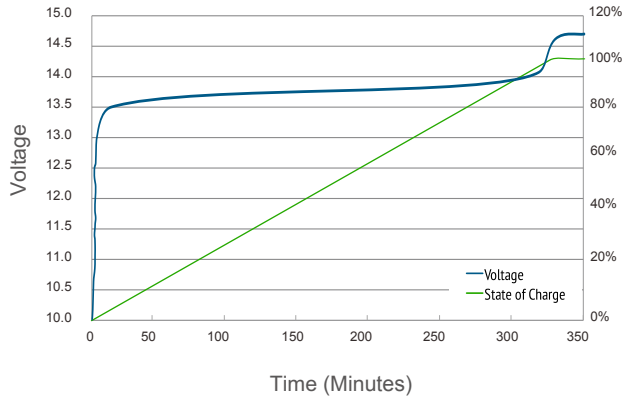
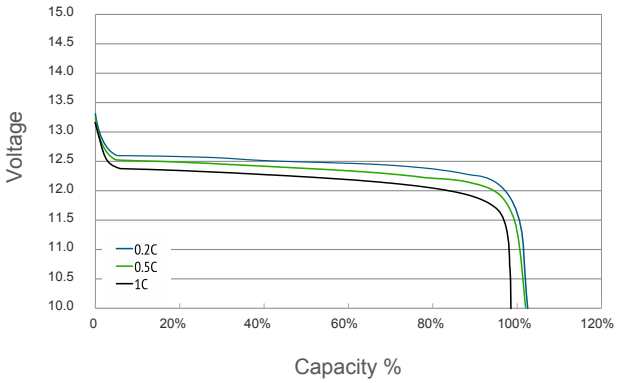
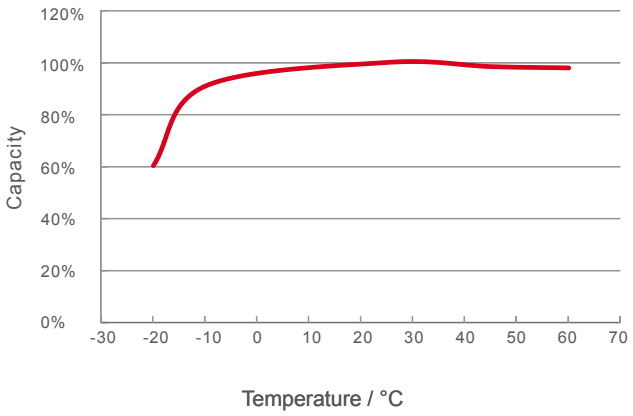
### Charging Characteristics (0.5C @ 25℃)



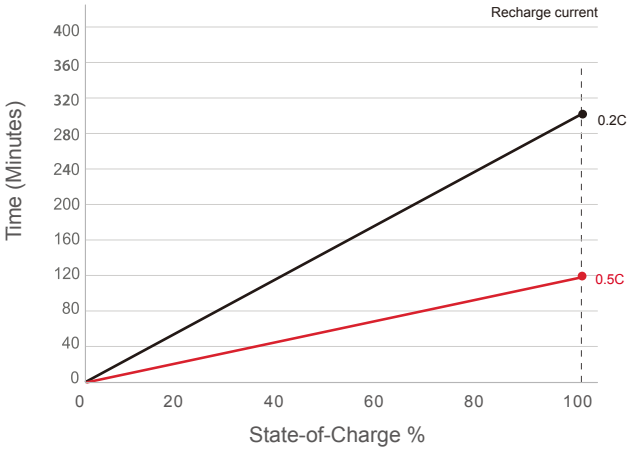

### Discharge Characteristics (0.2C, 0.5C, 1C @ 25℃)



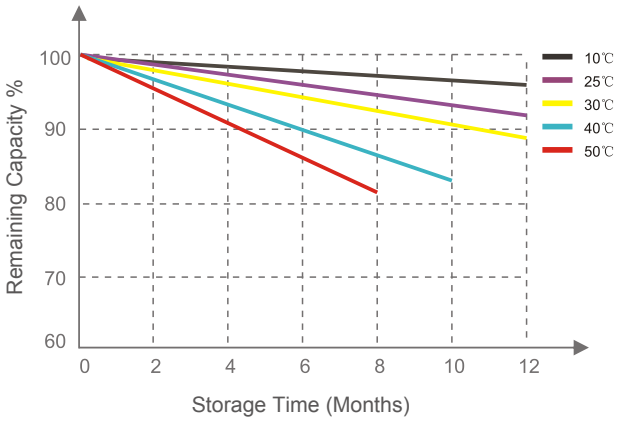

### Temperature vs Capacity




### Typical Charge Time




### Self-Discharge by Temperature




### Cycle Life vs Depth of Discharge (DOD)