



# LTH-51.2

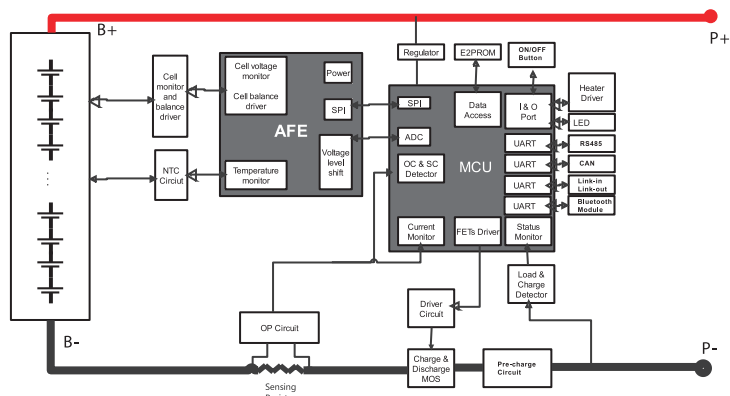
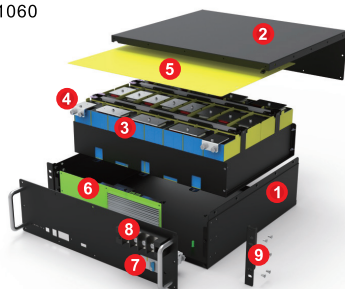
## 51.2-100 / 51.2-200 / 51.2-300

- Long life type prismatic LiFePO4 cells, suitable for energy storage application
- Low voltage system
- Battery certification: UN38.3, MSDS, CE
- Cycle life >6000 cycles
- Standard 19" rack design, flexible and easy installation
- -20°C ~ +55°C wide temperature range
- Parallel support for inverters to increase energy output or expand capacity
- SOC, RUN, ALARM display and BMS PC software
- OVP, LVP, OCP, OTP, LTP, Short circuit protection
- RS485, CAN communication port
- Independent protection for charge and discharge
- Optional part: Bluetooth module, Heater

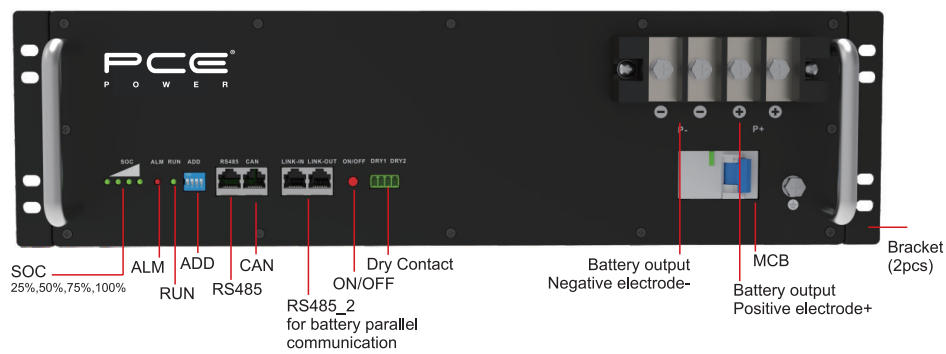
## SPECIFICATIONS

| Model                        | LTH51.2-100                                                                                   | LTH51.2-200               | LTH51.2-300               |
|------------------------------|-----------------------------------------------------------------------------------------------|---------------------------|---------------------------|
| Nominal Voltage              | 51.2V                                                                                         | 51.2V                     | 51.2V                     |
| Nominal Capacity             | 100Ah                                                                                         | 200Ah                     | 280Ah                     |
| Total Energy                 | 5120Wh                                                                                        | 10240Wh                   | 14336Wh                   |
| Dimension (W*D*H) mm         | 442*400*130.5                                                                                 | 442*500*250               | 442*650*250               |
| Approx. Weight               | 39.5Kg                                                                                        | 82.4Kg                    | 105Kg                     |
| Max. Discharging Current     | 100                                                                                           | 150                       | 140                       |
| Max. Charging Current        | 100                                                                                           | 100                       | 100                       |
| Pulse Discharge Current      | 110A @ 10min<br>120A @ 5s                                                                     | 165A @ 10min<br>180A @ 5s | 165A @ 10min<br>180A @ 5s |
| Charging Voltage (V)         | 55.2-58.4                                                                                     |                           |                           |
| End of Discharge Voltage (V) | 44.8                                                                                          |                           |                           |
| Operation Humidity           | 0-95% RH (No Condensing)                                                                      |                           |                           |
| Operating Temperature Range  | Charge: 0 ~ +55 °C<br>Discharge: -20 ~ +55 °C                                                 |                           |                           |
| Cycle Life                   | >6000                                                                                         |                           |                           |
| Design Calendar Life         | 15 years                                                                                      |                           |                           |
| Communication interface      | RS485*2, CAN*1, Dry contact*2                                                                 |                           |                           |
| Protection                   | Over voltage , Low voltage, Over current,<br>Over Temperature, Low Temperature, Short circuit |                           |                           |
| Parallel Support             | Up to 15 Sets                                                                                 |                           |                           |
| Series Support               | Not Supported                                                                                 |                           |                           |
| IP Class                     | IP20                                                                                          |                           |                           |
| Certification                | UN38.3, MSDS, CE                                                                              |                           |                           |

- ① Battery Case: SPCC with black painting
- ② Battery Cover: SPCC with black painting
- ③ LFP Cells: 16
- ④ Aluminum Bar -A1060
- ⑤ Epoxy Board
- ⑥ BMS
- ⑦ MCB
- ⑧ Power Terminal
- ⑨ Brackets

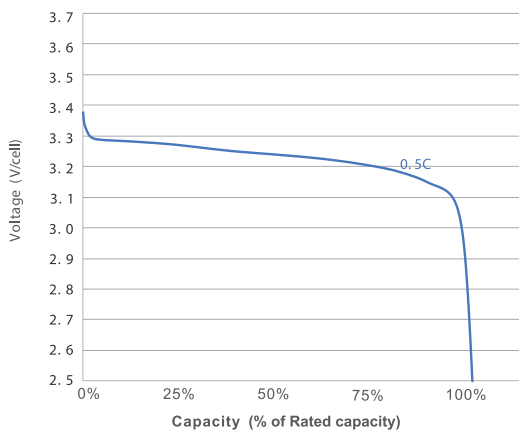


FRONT PANEL

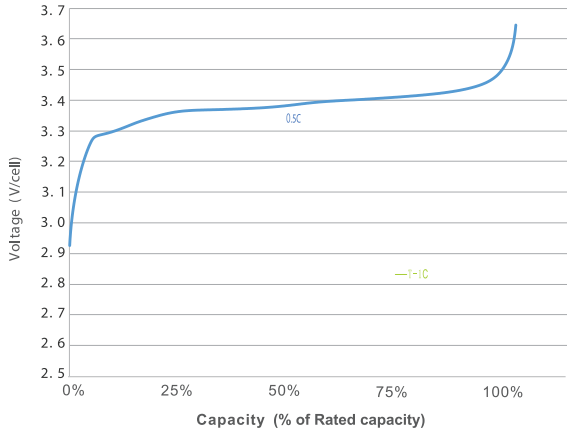


CHARACTERISTICS

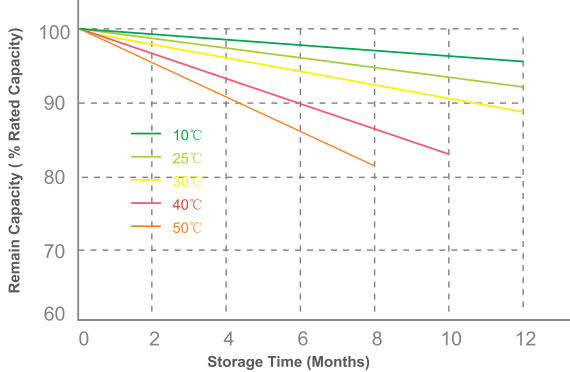
Different Discharge Rate and Temperature Characteristic



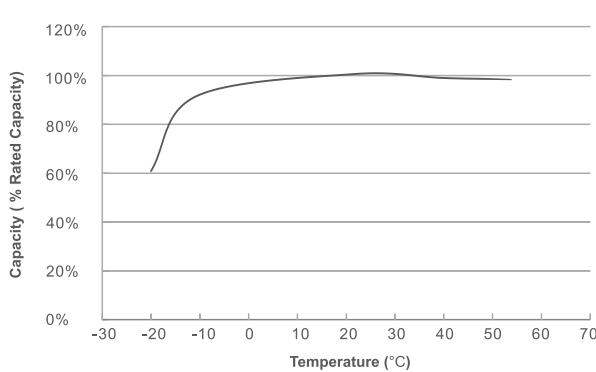
Different Charge Rate and Temperature Characteristic



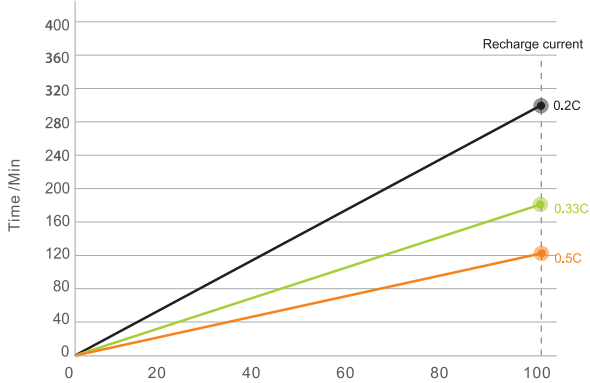
Different Temperature Self Discharge Curve



Capacity with Different Temperature



Typical Recharge Time



Typical Cycle Life

