



Eco Friendly

Long Life

Quick Charging

Maintenance Free

Smart BMS

## 100AH /48V/4.8KWH LITHIUM BATTERY (LFP)

### Specifications

|                       |                                       |
|-----------------------|---------------------------------------|
| Normal Voltage        | 48V                                   |
| Rated Capacity        | 100Ah                                 |
| Nominal Energy @ 25°C | 4800Wh                                |
| Battery Configuration | 15S (1P) - 100Ah                      |
| BMS                   | Smart BMS with Bluetooth connectivity |
| Cell type & Chemistry | Prismatic / LiFepo4 (LFP)             |
| Application           | Solar / Inverter                      |

### Charging Specifications

|                                      |                |
|--------------------------------------|----------------|
| Battery Operation Voltage Range      | 43.5V - 53.25V |
| Maximum Charging Current             | 50 Amps        |
| Continus Charging Current            | 40 Amps        |
| Max. Charging Time                   | 2Hr @ 50 Amps  |
| Operating Temperature while charging | 0°C - 50°C     |

### Discharge Specifications

|                                         |                 |
|-----------------------------------------|-----------------|
| Max. Discharge Current                  | 100 Amps        |
| Continuous Discharge Current            | 80 Amps         |
| Max. Discharge Time                     | 1 Hr @ 100 Amps |
| Operating Temperature while Discharging | 0°C - 50°C      |

### SOC / Communication

|                                            |                                                                            |
|--------------------------------------------|----------------------------------------------------------------------------|
| Recommended operating range of SOC         | 20% - 90%                                                                  |
| Minimum SOC Required for long time storage | 50% of Rate capacity (Ah)                                                  |
| Communication Interface                    | UART / RS485 - CAN                                                         |
| Inbuilt Display                            | Provided                                                                   |
| MCB                                        | Yes                                                                        |
| Cycle Life                                 | 25°C_0.5C/0.5C >3000cycles @80% SOH<br>45°C_0.5C/0.5C >2000cycles @80% SOH |

### Protection

|                     |     |                  |     |
|---------------------|-----|------------------|-----|
| Battery Hi Voltage  | Yes | Cell Low Voltage | Yes |
| Cell Hi Voltage     | Yes | Overload         | Yes |
| Battery Low Voltage | Yes | Short Circuit    | Yes |
| Temperature         | Yes |                  |     |

### Dimension & Weight

|                      |       |
|----------------------|-------|
| Dimension MM (L*W*H) |       |
| Weight               | 48 Kg |