

# LITHIUM FERRO PHOSPHATE BATTERY PACKS

(12.8V 100Ah - 240V 900Ah)

Powering Homes.  
Empowering Businesses.  
Energizing Future.



Sustainable



Competitive price



Up to 5 years of  
Warranty



Ultra  
Long life



Zero  
Maintenance



Reverse polarity  
protection built-in



Compact & Lightweight  
form factor

## 48V 100Ah

### BATTERY MODEL: IBE48100

#### CELL

| Type          | Nominal Voltage | Nominal Capacity | Nominal C-Rate | Maximum C-Rate |
|---------------|-----------------|------------------|----------------|----------------|
| LFP-Prismatic | 3.2 V           | 100 Ah           | C/2            | 1C             |

#### BATTERY

|                                        |                                                                                                     |
|----------------------------------------|-----------------------------------------------------------------------------------------------------|
| Voltage (V)                            | 48V                                                                                                 |
| Capacity (Ah)                          | 100Ah                                                                                               |
| Max Voltage (V)                        | 54.7V                                                                                               |
| Min Voltage (V)                        | 40.5V                                                                                               |
| Charging Current (A)                   | 50A                                                                                                 |
| Max Continuous Discharging Current (A) | 70A                                                                                                 |
| Size (mm) L × W × H                    | 650x360x220                                                                                         |
| Operating Temperature (°C)             | Charge: 0°C ~ 55°C / Discharge: -20°C ~ 55°C                                                        |
| Cycle Life                             | 5000 (25°C ± 2°C, 0.5C/0.5C, 90% DOD, 70% EOL)                                                      |
| Altitude                               | ≤2000m                                                                                              |
| IP Rating of Enclosure                 | IP55                                                                                                |
| Storage Temperature                    | 0 ~ 35°C                                                                                            |
| Weight (Kg)                            | 53kg (Approx)                                                                                       |
| Interface Panel                        | 4LED(SOC:25%~SOC100%) LCD(voltage, Current, Temperature, Cell voltage)                              |
| Humidity                               | 5% ~ 90%                                                                                            |
| Wall Mounted Battery                   | Efficient Cooling System, Modular Design, Balance Monitoring, Energy Optimization.                  |
| Rack Mounted Battery                   | Scalable, Parallel Communication, Address Button, Compact & Space Saving, Ethernet, Fault Detection |
| Warranty Period                        | 5 Years                                                                                             |

**Caution:** It is recommended that the battery is charged only by a CC-CV charger approved by IB Energy.

\* Dimensions are subject to variations as per chosen orientation, enclosure and BMS.

\*\* Approximate weights may vary depending upon chosen orientation, enclosure and BMS.

\*\*\* Capacity at End-Of-Life will be 70% of Nominal capacity.

**Disclaimer:** This datasheet is a standard version of a pre-manufactured battery pack. Customization/Prototyping will change these mentioned parameters. This TDS is for informative purposes only and should not be used for any technical/commercial or legal claims.