MICROTEK

MADE IN INDIA

LITHIUM-ION BATTERY

(LFP CHEMISTRY)

12.8V- 100AH



SCT | SYNC CHARGE TECHNOLOGY FOR FASTER, LONGER, AND SAFER POWER

Powered by BMS Battery Management System

MLB1280060

1280WH 100Ah/12.8V | 5 year Warranty*

- Smart Energy Balancing
- Faster Recharge
- Smart Adaptability
- Compact & Lightweight
- Zero Maintenance
- Higher Cycle Life

*As per the total units sold till date

TECHNICAL DATASHEET

12.8V 100Ah LiFePO4 Battery

Battery Specifications:

Parameters	Specifications
Model	MLB1280060
Battery Type	Lithium Iron Phosphate (LiFePO4)
Nominal Voltage	12.8 V
Nominal Capacity	100 Ah
Energy	1.28 kWh
Cell Configuration	4S1P
Cell Type	Prismatic LiFePO4
Cycle Life	> 3500 cycles @ 80% DOD
Design Life	10+ years
Weight	Approx 14 kg
Dimensions mm (L x W x H)	360x145x275 ± 2mm
Operating Voltage Range	11.2 V – 14.4 V
Max Charge Cut-off Voltage	14.4 V
Discharge Cut-off Voltage	11.2 V
Standard Charge Current	30 A
Max Charge Current	50 A
Standard Discharge Current	50 A
Max Continuous Discharge Current	100 A
Peak Discharge Current	250 A (for 1.5 seconds)
Internal Resistance of Battery	< 20 mΩ

Note: Specifications are subject to change during the detailed engineering

Applications

RESIDENTIAL INVERTERS | HOUSEHOLD UPS INVERTER 12V


COMPUTER


AIR COOLER

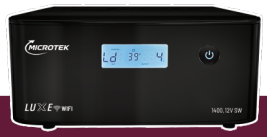

LED TV


LED BULB


FAN


TUBE LIGHT

Used to Run following loads.



RECOMMENDED FOR LITHIUM BATTERY COMPATIBLE INVERTERS OF THE SAME VOLTAGE RATINGS.

IEC IEC62620 | ISO 9001:2015 | ISO 14001:2015

Environmental Conditions:

Parameters	Specifications
Operating Temperature Range	Charge: 0°C to 45°C
	Discharge: -20°C to 60°C
Storage Temperature Range	0°C to 45°C
Humidity Range	5% - 95% RH (Non-condensing)
Cooling	Natural Air/Forced Air (Optional)

Note: Always use an inverter with CC/CV charging profile that is compatible with Lithium batteries as per the specified voltage and current parameters.
Recommended upper & lower cut-off voltage.

Protection:

Parameters	Specifications
Overcharge Protection	Yes
Over-discharge Protection	Yes
Over-current Protection	Yes
Short Circuit Protection	Yes
Temperature Protection	Yes
Balance Function	Optional

Fast Charging: Supports high current charging

Safety: Built-in multiple protection mechanisms

Lightweight & Compact Design

Zero Maintenance: No regular maintenance required

Eco-Friendly: No toxic materials used

High Efficiency: Low internal resistance and high energy conversion efficiency