



MSME
MICRO, SMALL & MEDIUM ENTERPRISES
सूक्ष्म, लघु एवं मध्यम उद्यम



All Circuit Solution **EV-BATTERY CHARGER**

1kW

BMS Electronics

EV BATTERY CHARGER



Model: BMS/ELD/20



BMS Lithium Battery Charger is a SMPS type battery charger optimized for charging LFP (Lithium Ferrous Phosphate) chemistry battery packs for Light E-Vehicle application. Various models are available in this seriBMS for charging 15-Cell-SeriBMS to 23-Cell-SeriBMS LFP Battery packs.

Features:

- Charging Current and Voltage profile optimized for Lithium Ferrous Phosphate (LFP) chemistry battery packs for Light E-Vehicle application. Can be customized for other Li-Ion chemistry such as NCM also.
- High Efficiency with Power factor correction to reduce Power Consumption from Mains.
- High charging current even at low mains voltages for faster charging.
- Electronic Reverse Battery Protection –enhanced safety and avoid inconvenient fuse replacement in case of accidental reverse connection.
- Informative Battery Bar Graph and Mains indication along with audio alarms.
- Compact size for easy handling.
- Rugged metal enclosure.

Specifications

| Parameter | Range | | |
|-------------------------------|--|--------------------|--------------------|
| Model | BMS-5816LI | BMS-5517LI | BMS-8312LI |
| Battery Pack Type | 16-Cell Series LFP | 15-Cell Series LFP | 23-Cell Series LFP |
| MAX. CHARGING VOLTAGE | 58.4V Typ. | 54.6V Typ. | 83.0V Typ. |
| MAX. CHARGING CURRENT | 16A ± 1.0A | 17A ± 1.0A | 12A ± 1.0A |
| CHARGE PROFILE | CC –CV –with Charge Termination Timer and current threshold. | | |
| MAINS OPERATING RANGE | 120VAC±10V -280VAC±10V | | |
| MAINS OPERATING FREQUENCY | 40 Hz TO 60 Hz | | |
| INPUT POWER FACTOR | Active PF correction, >0.95 | | |
| EFFICIENCY | >89% | | |
| COOLING SYSTEM | Forced Air Cooled | | |
| VISUAL INDICATIONS (LED) | 1. MAINS NORMAL INDICATION. | | |
| | 2. 4 LED BATTERY CHARGE STATUS BAR GRAPH | | |
| | FAULT INDICATIONS BY LED BLINK - Battery Too Low, Battery Too High, Abnormal High Current, Over Temperature/Fan failure, Mains abnormal | | |
| AUDIO INDICATIONS (Buzzer) | 1. Battery Connect, Battery Charge Completion –Intermittent beeps. | | |
| | 2. Mains Failure or any Fault –long Beeps | | |
| REVERSE BATTERY PROTECTION | Electronically Protected –Charger will not start unless battery is connected in correct polarity. | | |
| MAINS VOLTAGE PROTECTION | Withstand up to 320V AC RMS. | | |
| MAINS OVER CURRENT PROTECTION | By FUSE, in case of abnormal condition | | |
| THERMAL PROTECTION | Electronically protected with internal sensor. | | |
| CHARGER OPERATING TEMPERATURE | 0°C TO 45°C | | |
| HUMIDITY | 95% RH Non-Condensing | | |
| ENCLOSURE | Powder coated sheet metal cabinet | | |