



All Circuit Solution **EV-BATTERY CHARGER**

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



Lithium Battery Charger (400W) Model: BMS/ELD/10



BMS Electronics product is SMPS type Two-Wheeler E-Vehicle battery charger designed for charging different types of Lithium chemistry like LFP or NMC battery packs. Different models are available in this series for charging 13-Cell-Series to 23-Cell-Series Battery packs.

Features:-

- Charging Current and Voltage profile designed for Lithium LFP or NMC Chemistry battery packs for 2 Wheeler E-Vehicle applications.
- Configurable for various charging voltages in the range of 53V to 84V.
- 600W Power Rating – Charging current range 4A to 12A depending on voltage setting.
- High Efficiency to reduce Power Consumption.
- Rugged extruded Sheet Metal Powder Coated enclosure.

Specifications

Parameter	Range			
Model	BMS/ELD/10-36	BMS/ELD/10-48	BMS/ELD/10-60	BMS/ELD/10-72
Battery Pack Type(NMC &LFP)	12S NMC & 10S LFP	13S NMC & 16S LFP	16S NMC & 19-20S LFP	20S NMC & 23S LFP
MAX. CHARGING VOLTAGE	43.2V & 42.0V LFP	54.6V	67.0V to 72.0V	84.0V
MAX. CHARGING CURRENT	6-10A ± 1A	6-12A ± 1A	6-10A ± 1A	4-8A ± 1A
CHARGE PROFILE	CC – CV – with Charge Termination Timer and current threshold.			
MAINS OPREATING RANGE	150VAC±10V -280VAC±10V			
MAINS OPREATING FREQUENCY	50 Hz TO 60 Hz			
EFFICIENCY	>96% Typical			
COOLING SYSTEM	Air Cooled with High speed Fan			
MAINS VOLTAGE PROTECTION	It can Withstand up to 300V AC RMS.			
MAINS OVER CURRENT PROTECTION	Through FUSE, in case of abnormal condition			
THERMAL PROTECTION	Internally protected with thermal sensor.			

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Parameter	Range			
Model	BMS/ELD/10-24			
Battery Pack Type(NMC &LFP)	8S NMC & 6S LFP			
MAX. CHARGING VOLTAGE	29.2V & 29.0V LFP			
MAX. CHARGING CURRENT	6-10A ± 1A			
CHARGE PROFILE	CC – CV – with Charge Termination Timer and current threshold.			
MAINS OPREATING RANGE	150VAC±10V -280VAC±10V			
MAINS OPREATING FREQUENCY	50 Hz TO 60 Hz			
EFFICIENCY	>96% Typical			
COOLING SYSTEM	Air Cooled with High speed Fan			
MAINS VOLTAGE PROTECTION	It can Withstand up to 300V AC RMS.			
MAINS OVER CURRENT PROTECTION	Through FUSE, in case of abnormal condition			
THERMAL PROTECTION	Internally protected with thermal sensor.			