



All Circuit Solution **ELECTRONICS**
EV-BATTERY CHARGER

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



This product is a SMPS type 2-Wheeler E-Vehicle battery charger optimized for charging various Lithium chemistry like LFP, NCM or NCA battery packs. Various models are available in this series for charging 13-Cell-Series to 19-Cell-Series Battery packs.

Features:

- Charging Current and Voltage profile optimized for Lithium LFP or NCM or NCA chemistry battery packs for 2 Wheeler E-Vehicle application.
- Configurable for various charging voltages in the range of 53V to 84V.
- 1000W Power Rating –Charging current range 8A to 12A depending on voltage setting.
- High Efficiency to reduce Power Consumption from Mains.
- Electronic Reverse Battery or Output Short Protection –enhanced safety.
- Informative Battery LED Indication and Mains indication.
- Heavy metal enclosure.

Specifications

Parameter	Range		
Model	BMS-5412	BMS-6010	BMS-8408
Battery Pack Type	13S NCM/NCA	16S LFP	13S NCM/NCA
MAX. CHARGING VOLTAGE	54.0V Typ.	67.0V Typ.	84.0V Typ.
MAX. CHARGING CURRENT	12A ± 0.5A	10A ± 0.5A	8A ± 0.5A
CHARGE PROFILE	CC –CV –with Charge Termination Timer and current threshold.		
MAINS OPREATING RANGE	150VAC±10V -280VAC±10V		
MAINS OPREATING FREQUENCY	40 Hz TO 60 Hz		
EFFICIENCY	>91% Typical		
COOLING SYSTEM	Forced Air Cooled		
VISIUAL INDICATIONS (LED)	1. MAINS NORMAL INDICATION.		
	2. GREEN AND RED LED INDICATION.		
	LED DISPLAY TO SHOW CUT OFF VOLTAGE		
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 TEMPRATURE	0°C TO 55°C		
HUMIDITY	95% RH Non-Condensing		