

EV-BATTERY CHARGER

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



ALL OUTPUT CONNECTER



XLR

T-PIN



ANDERSON SB-50



D-TYPE  
FOR  
OKINAWA



DC PIN



XT 90



CHAGORI  
FOR OKINAWA



3 PIN CONNECTER



ANDERSON SB-75

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.
- 750W 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			
<b>Model</b>	<b>BMS/ELD/AL-36</b>	<b>BMS/ELD/AL-48</b>	<b>BMS/ELD/AL-60</b>	<b>BMS/ELD/AL-72</b>
<b>Battery Pack Type(NMC &amp;LFP)</b>	12S NMC & 10S LFP	13S NMC & 16S LFP	16S NMC & 19- 20S LFP	20S NMC & 23S LFP
<b>MAX. CHARGING VOLTAGE</b>	43.2V & 42.0V LFP	54.6V	67.0V to 72.0V	84.0V
<b>MAX. CHARGING CURRENT</b>	6-10A ± 1A	6-12A ± 1A	6-10A ± 1A	4-8A ± 1A
<b>CHARGE PROFILE</b>	CC – CV – with Charge Termination Timer and current threshold.			
<b>MAINS OPREATING RANGE</b>	150VAC±10V -280VAC±10V			
<b>MAINS OPREATING FREQUENCY</b>	50 Hz TO 60 Hz			
<b>EFFICIENCY</b>	>96% Typical			
<b>COOLING SYSTEM</b>	Air Cooled with High speed Fan			
<b>MAINS VOLTAGE PROTECTION</b>	It can Withstand up to 300V AC RMS.			
<b>MAINS OVER CURRENT PROTECTION</b>	Through FUSE, in case of abnormal condition			
<b>THERMAL PROTECTION</b>	Internally protected with thermal sensor.			

Parameter	Range			
<b>Model</b>	<b>BMS/ELD/AL-24</b>			
<b>Battery Pack Type(NMC &amp;LFP)</b>	8S NMC & 6S LFP			
<b>MAX. CHARGING VOLTAGE</b>	29.2V & 29.0V LFP			
<b>MAX. CHARGING CURRENT</b>	6-10A ± 1A			
<b>CHARGE PROFILE</b>	CC – CV – with Charge Termination Timer and current threshold.			
<b>MAINS OPREATING RANGE</b>	150VAC±10V -280VAC±10V			
<b>MAINS OPREATING FREQUENCY</b>	50 Hz TO 60 Hz			
<b>EFFICIENCY</b>	>90% Typical			
<b>COOLING SYSTEM</b>	Air Cooled with High speed Fan			
<b>MAINS VOLTAGE PROTECTION</b>	It can Withstand up to 300V AC RMS.			
<b>MAINS OVER CURRENT PROTECTION</b>	Through FUSE, in case of abnormal condition			
<b>THERMAL PROTECTION</b>	Internally protected with thermal sensor.			

