

## Electric Rickshaw/Loader Battery Charger



**C2AK600012**  
(For 5 Battery System)

Electric Rickshaw Charger is designed to fulfill charging needs of Electric Rickshaws. This intelligent charger is capable of operating at wide Input AC voltage range of 170-300VAC. It has been designed to withstand the adverse Indian power conditions. Efficient, Compact in Size, 4 stage battery charging algorithm are some of its salient features when compared to the linear chargers (bulky transformer based chargers). Its high efficiency and battery life extension features are its USP.

### SALIENT FEATURES:

- High efficiency - consumes very little power.
- Extended battery life - Battery life is enhanced greatly.
- Intelligent with a powerful micro controller - programmable battery profile adjustment is possible.
- Deep discharge charging capability - charges batteries with deep discharge voltage of 40V.
- Over charge Protection - maximum charging time limit of 14 hours provided
- Battery reverse polarity protection
- Overload protection and accurate battery current limit

### THE COMPANY :

- Company with more than 18 years of experience in switching power supplies.
- Manufactured in a state-of-the-art ISO - 9001 Facility.
- Highly qualified & experienced R&D team.

## SPECIFICATIONS

### AC Input

|                            |                 |
|----------------------------|-----------------|
| AC Input Voltage - range   | : 170 - 300 VAC |
| AC Input Voltage - nominal | : 230 VAC rms   |
| AC Input Frequency         | : 47 - 53 Hz    |
| AC Input Current - maximum | : 8.0A rms      |

### DC Output

|                                  |                               |
|----------------------------------|-------------------------------|
| Maximum DC Output Voltage        | : 81.8V $\pm$ 0.5V            |
| DC Output Current                | : 12A $\pm$ 0.5A              |
| DC Output Line & Load Regulation | : Tolerance $\pm$ 2% at cable |
| DC Ripple / Noise                | : <800mV / <1600mV Pk-Pk      |

### Protections

|                                     |             |
|-------------------------------------|-------------|
| Output over load                    | : Available |
| Output short circuit                | : Available |
| Output over voltage                 | : Available |
| Over temperature with auto recovery | : Available |
| Battery reverse                     | : Available |
| Boost charging safety timer         | : Available |

### Environmental

|                       |                  |
|-----------------------|------------------|
| Operating Temperature | : 0°C to +50°C   |
| Storage Temperature   | : -10°C to +60°C |

### Mechanical

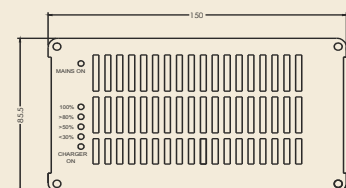
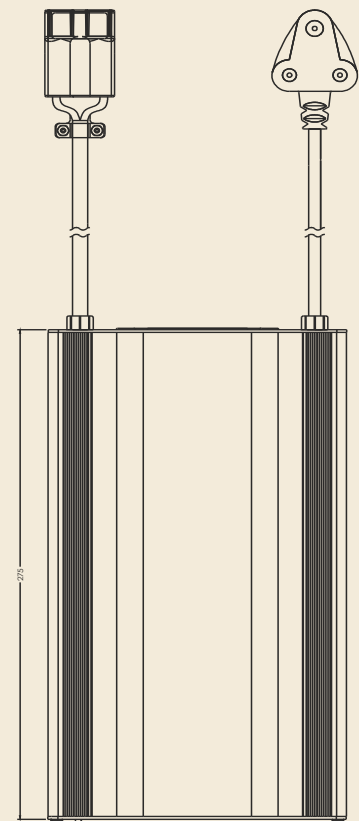
|                     |   |
|---------------------|---|
| Enclosure           | : Aluminum                                |
| Dimensions          | : W=150mm, H=85.5mm, D=275mm              |
| Weight              | : 3.5Kg                                   |
| AC input connector  | : 2meter length with 3core , 3pin AC plug |
| DC output connector | : SB50 connector with 2Core cable         |

### Operation

|                       |  |
|-----------------------|--|
| AC input ON LED       | : Red LED                              |
| Battery Charge ON LED | : Green LED Blinking (any)             |
| Charge Complete       | : Red LED Off, all Green LEDs Constant |
| Charger ON            | : Amber LED                            |

### Special Features

Unit will monitor the battery voltage and produce output only when right battery pack connected.



All dimensions are in mm.

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\* Specifications may change without prior notice.