



# Enermax Systems

The Energy People  
ISO 9001:2015 Certified

M-76, MIDC, Ambad, Nashik 422010, Maharashtra, India Tel: 91-253-2381244

E-mail [uday@enermax.co.in](mailto:uday@enermax.co.in), [rajiv@enermax.co.in](mailto:rajiv@enermax.co.in), Website : [www.enermax.co.in](http://www.enermax.co.in)



## E - BIKE BATTERY CHARGER



These battery chargers are specially designed for **Yo-Bike / E-Bike** taking specific requirements into consideration.

These are based on **SMPS** technology adopting latest **Pulse Width Modulation** technique.

Available ranges are as follows.

1. 48 Volts, 3 Amps

Other Non-standard ranges also can be made available against specific request.

### ➤ THE COMPANY :

Company with more than 20 years of experience in switching power supplies and charger.

Manufactured in a state-of-the-art ISO – 9001:2015 Facility.

Highly qualified & experienced **R&D** team

## Technical Specifications

48V, 3A

48V,5A

### Electrical Characteristics

1. Input Voltage	170 – 300V AC	170 – 300V AC
2. Output Voltage-Boost mode	56V DC	56V DC
3. Output Voltage-Float mode	53.6V DC	53.6V DC
4. Charging Current-Boost mode	3A	5A
5. Leakage Current @ 230 V ac	< 2mA	< 2mA
6. Line regulation	< 1%	< 1%
7. Load regulation	< 1%	< 1%
8. Ripple content	150mV p-p	150mV p-p
9. Dielectric strength:		
Between Input & Output	2kV AC	
Between Input & Earth	1.5kV AC	
Between Output & Earth	1.5kV AC	

### Protections

1. In rush current	Limited by NTC Thermister
2. Over voltage at Input	Shut down above 300V AC
3. Under voltage at Input	Cutoff at 140V AC. Cut in at 160V AC
4. Over voltage at Output	59V
5. Short circuit at Output	Protected
6. Overload at Output	Protected
7. Reverse polarity of Battery	Protected
8. Over voltage due to external source	Protected

### Other Features

1. Indications	Charging ON, Mains ON
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### Mechanical

1. Dimensions WxDxH	160x90x60
2. Mounting	Table top mounting
3. Approx. Weight	500 g

### Environmental

1. Operating Temperature	0 – 50 Deg.C
2. Operating Relative Humidity	0 – 80% Max.
3. Vibrations	10 – 500Hz 2G-10min. / 1 Cycle 60 min. along all Three axes