



**Enermax Systems**

The Energy People

ISO 9001:2015 Certified



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# BATTERY CHARGER For Diesel Gen.Set



These battery chargers are specially designed for **Diesel Generators / Engine Start applications** taking specific requirements into consideration.

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

Various available ranges are as follows.

1. 12 Volts, 6 Amps: Suitable for Single Battery upto 100 Ah capacity.
2. 12 Volts, 10 Amps: Suitable for Single Battery above 100 Ah up to 200 Ah capacity.
3. 24 Volts, 10 Amps: Suitable for Two Batteries in Series upto 100 Ah each Battery capacity.

Other Non-standard ranges like 24 Volts, 20 Amps (Suitable for Two Batteries in Series above 100 Ah upto 200 Ah each Battery capacity) 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

24V, 10A

12V, 10A

12V, 6A

### Electrical Characteristics

1. Input Voltage	170 – 300V AC	170 – 300V AC	150 – 300V AC
2. Output Voltage-Boost mode	27.4 – 28V DC	14V DC	14V DC
3. Output Voltage-Float mode	26.2 V DC	13.4V DC	13.4V DC
4. Charging Current-Boost mode	10A	10A	6A
5. Charging Current-Float mode	0 – 4A	0 – 4A	0 – 2.5A
6. Leakage Current @ 230 V ac	< 2mA	< 2mA	< 2mA
7. Line regulation	< 1%	< 1%	< 1%
8. Load regulation	< 1%	< 1%	< 1%
9. Ripple content	150mV p-p	150mV p-p	150mV p-p
10. Dielectric strength:			
i. Between Input & Output	2 kV AC	2kV AC	2kV AC
ii. Between Input & Earth	1.5kV AC	1.5kV AC	1.5kV AC
iii. Between Output & Earth	1.5kV AC	1.5kV AC	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	29.5V	15.5V	15.5V
5. Short circuit at Output	Protected	Protected	Protected
6. Overload at Output	Protected	Protected	Protected
7. Reverse polarity of Battery	Protected	Protected	Protected
8. Over voltage due to external source	Protected	Protected	Protected

### Other Features

1. Indications	Mains ON, Boost mode, Float mode, Battery Reverse
2. Annunciation	Potential free NO/NC contact for Charger ON/FAIL

### Mechanical

1. Type of mounting	Wall mounting Type		
2. Dimensions WxDxH	195x127x94	185x125x65	175x115x60
3. Weight (Approx.)	1500g	1200g	1000g

### 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