

EV Battery Chargers.

E bike – G- Series

Enermax Systems, MIDC Ambad,
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G500 Series for EV Lithium Ion Batteries

Features :

- Wide Input Supply Range, Withstand 320Vac
- Protections - Short circuit / Over load / Over Voltage / Over Temperature
- Battery Reverse Polarity Protection
- SMPS Based Design , CCCV Charging Profile
- Microcontroller Based Intelligent Design takes care of Battery even though Battery in prolonged Deep discharged condition.
- Led Indications for Power On, Charging status in percentage
- High efficiency, long life and high reliability
- Miniature size, high power density



SPECIFICATION

MODEL		G500-54.60-06	G500-58.80-06	G500-54.60-08	G500-58.80-08
Input	Operating Voltage	170 VAC ~ 300VAC			
	Frequency	45Hz - 65Hz			
	Efficiency	>85%			
	Inrush Current	<30A At 230VAC			
	Leakage Current	<1mA At 230VAC			
Output	Typical Voltage	54.6V	58.8V	54.6V	58.8V
	Voltage Range	35.1~54.6V	37.8~58.8V	35.1~54.6V	37.8~58.8V
	Rated Current	6A		8A	
	Rated Power	327.6W	352.8W	436.8W	470.4W
	Pre-Charge Volt. Range	0~35.1V	0~37.8V	0~35.1V	0~37.8V
	Pre-Charge Current	20 to 25 % of Rated Constant Current			
	Ripple & Noise Max.	< 2% of Rated Voltage			
	Voltage Tolerance	< +/- 2% of Rated Voltage			
	Line Regulation	< +/-1%			
	Load Regulation	< +/- 2%			
Protection	Output Over Load	Constant Current, Auto Recovery			
	Output Over Voltage	Provided			
	Rev. Battery Polarity	Provided			
	Over Temperature	Provided			
Environment	Working Temp.	-5DegC to 50DegC Surrounding to Enclosure			
	Working Humidity	20 to 90% RH Non Condensing			
	Storage Temp Humidity	-10 to 85DegC 10 to 95% RH			
	Vibration	10 to 500Hz, 2G, 20min/sweep, period-1Hr, Each along X, Y, Z axes			
Safety & EMC	Safety Standard	Design to meet UL60950-1			
	Withstand Voltage	I/P-O/P : 2KVAC, I/P-Earth : 1.5KVAC, O/P-Earth : 500VAC			
	Isolation Resistance	I/P-O/P, I/P-Earth, O/P-Earth : 100MΩ / 500VAC			
	EMC	Design to meet IEC61000-4-2,3,4,5,6 & 11			
Other	Enclosure protection	IP-20			
	Cooling	Forced Cooling			
	Dimension	183*116*70 (L*W*H)			
Note	1. All parameters NOT specially mentioned are measured at typical input, rated load and 25Deg.C ambient temp. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor 3. Tolerance : includes set up tolerance, line regulation & load regulation. 4. Specifications are subject to change without prior notice due to constant improvement in design & technology.				

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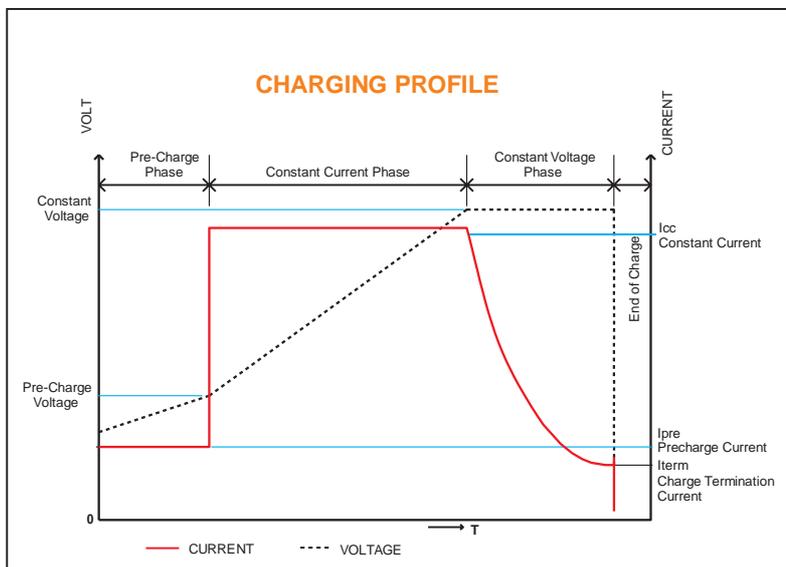
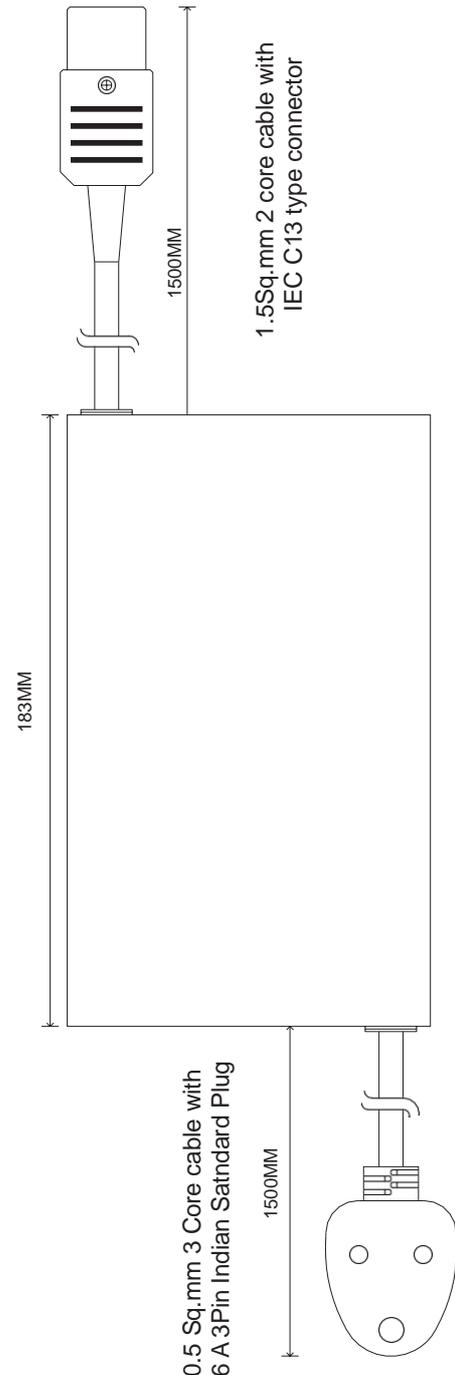
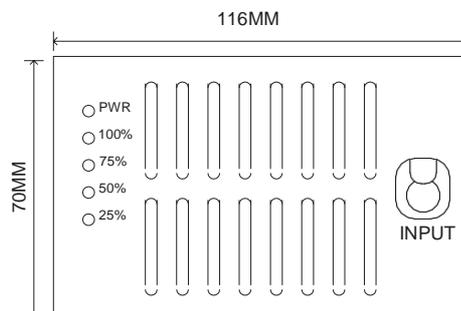
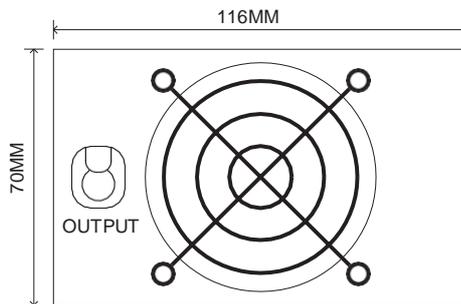
MODEL		G500-67.20-06	G500-71.40-06	G500-84.00-06
Input	Operating Voltage	170 VAC ~ 300VAC		
	Frequency	45Hz - 65Hz		
	Efficiency	>85%		
	Inrush Current	<30A At 230VAC		
	Leakage Current	<1mA At 230VAC		
Output	Typical Voltage	67.2V	71.4V	84.0V
	Voltage Range	43.2~67.2V	45.9~71.4V	54.0~84.0V
	Rated Current	6A		
	Rated Power	403.2W	428.4W	504.0W
	Pre-Charge Volt. Range	0~43.2V	0~45.9V	0~54.0V
	Pre-Charge Current	20 to 25 % of Rated Constant Current		
	Ripple & Noise Max.	< 2% of Rated Voltage		
	Voltage Tolerance	< +/- 2% of Rated Voltage		
	Line Regulation	< +/-1%		
	Load Regulation	< +/- 2%		
Protection	Output Over Load	Constant Current, Auto Recovery		
	Output Over Voltage	Provided		
	Rev. Battery Polarity	Provided		
	Over Temperature	Provided		
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DIMENSIONAL DETAILS :



NOTE: ALL DIMENSIONS ARE IN MM