



## 3300 Watt Electric Vehicle Li-Ion Charger Data Sheet ROHS



## **Description:**

Green Watt Power's 3.3kW Li-ion battery chargers are designed with ultra-high power density, as well as with a full metal case enclosure. The excellent power conversion efficiency and thermal management provides the on-board standard chargers high reliability and long life time. This series of chargers offer solid and safe power conversion for applications such as e-vehicles, e-bus, e-boat, etc.

## Features:

• Universal AC Input: 90~264Vac

• Output Power: 3.3kW

High Reliability On-Board Design

Compatible with Liquid Cooling and Air Cooling

• High Efficiency: Up to 96%

All-Around Protections: OVP, OCP, SCP, OTP, UVLO

• Low Temperature Start Up @ -40°C

High Temperature Full Load Operation @ 60ºC

• IP67 Ingress Grade

Communication via CAN Bus



Model Number	Output Power	Output Voltage	Output Current	Output Current Range
EVC-420-3300	3300W	200-420V	10A	0-10A
(PLD3300-EVCS02-420)	330000	200-420V	10/4	0-10A

Input/Output Specifications		
Model Number	EVC-420-3300 (PLD3300-EVCS02-420)	
Input Voltage	90-264v	
Input Frequency	45-65Hz	
Max. Input Current	22A	
Max. Input Power	4000W	
Output Voltage	200-420V	
Output Current	10A	
Current Accuracy	<±1% @ above 2A	
Voltage Accuracy	<±0.5%	
Output Power	3300W	
Efficiency	96%	
Ingress Protection	IP67 for Modules	

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General Specifications			
Short Circuit Protection	When output is being shorted, no components will be damaged. The charger shall enter into latch mode during short circuit protection		
Over Voltage Protection	Over voltage protection will activate when output voltage goes to 430±4V. The charger shall enter into latch mode during over voltage protection.		
Over Temperature Protection	When the charger enters overheating protection condition, no components will be damaged. The charger shall enter into auto-recovery mode during over temperature protection, and return to normal operation after the fault condition is removed.		
Anti Reverse Polarity Protection	When the battery polarity is reversely connected to the charger, the charger will not output.		
Under Voltage Protection	Under voltage protection will activate when output voltage goes to 180±4V. The charger shall enter into latch mode during under voltage protection.		
Communication Fault Protection	When there is communication fault between charger and BMS, the charger will not output.		
MTBF: 25°C, 230Vac input, and full load output.	≥ 500,000 Hours		
Product Life:25°C, 230Vac input, and full load output.	≥ 15,000 Hours		
Temperature - Operating	MIN MAX	-40 +60	ōС
Temperature - Storage	MIN MAX	-40 +85	ōС
Relative Humidity	10% - 100%		
Case Size	230mm x 180mm x 62mm		
Unit Weight	TBD kg		

Electromagnetic Compatibility EMI/EMC		
EMI, RFI	Comply with EN55002 Class A, shall have a minimum if 6dB margin.	
Immunity:		
EN61000-3-2	Harmonic Current Emission	
EN61000-3-3	Voltage Fluctuations and Flicker	
EN61000-4-2	ESD 8kV Air Discharge, 4kV Contact Discharge	
EN61000-4-3	Radio-Frequency Electromagnetic Field Susceptibility Test-Rs	
EN61000-4-4	Electrical Fast Transient/Burst – EFD	
EN61000-4-5	Surge Immunity Test, AC power line: line to line 2kV, line to each 4kV	
EN61000-4-6	Conducted Radio Frequency Disturbance Test-Cs	
EN61000-4-8	Power Frequency Magnetic Field Test	
EN61000-4-1-1	Voltage Dips	

**Notes:** Specification is subject to change without notice.

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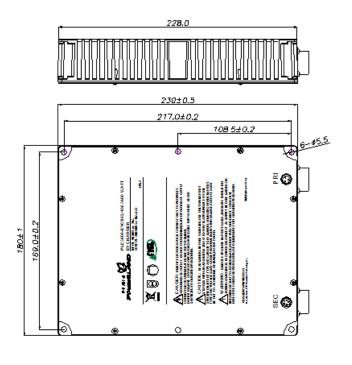


## **Mechanical Information:**

Forced air cooling version:

270±0.5 27.0

Forced water cooling version (external water cooling plate should be added accordingly



OUPUT

4

4/30/18