



## 6.6kW Electric Vehicle Li-Ion Charger Data Sheet



## **Description:**

Green Watt Power's 6.6kW 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: 6.6kW
- 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
- Fully potted to ensure high reliability in rugged environments

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Model Number	Output Power	Output Voltage	Output Current	Output Current Range
EVC-420-6600	CCOOM	200 4201	204	0.204
(PLD6600-EVCS15-420)	6600W	200-420V	20A	0-20A

General Specifications		
Model Number	EVC-420-6600 (PLD6600-EVCS02-420)	
Input Voltage	90-264v	
Input Frequency	45-65Hz	
Max. Input Current	44A	
Max. Input Power	8000W	
Output Voltage	200-420V	
Output Current	20A	
Current Accuracy	<±1% @ above 4A	
Voltage Accuracy	<±0.5%	
Output Power	6600W	
Efficiency	96%	

Protections			
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 prote goes to 430±4V. The during over voltage	e charger shall ent	vhen output voltage er into latch mode
Over Temperature Protection	no components wil	Il be damaged. The mode during over urn to normal oper	protection condition, charger shall enter temperature ration after the fault
Anti Reverse Polarity Protection When the battery po		olarity is reversely connected to the r will not output.	
Under Voltage Protection	Under voltage prot goes to 180±4V. Th during under voltag	e charger shall ent	when output voltage er into latch mode
Communication Fault Protection	When there is com BMS, the charger v		etween charger and
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	ōС

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	+85	
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:

(1) Specification is subject to change without notice.

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