

7.2/9.5 KW Electric Vehicle Li-Ion Charger Data Sheet

Description:

Green Watt Power's 7.2kW and 9.5kW super capacitor chargers are designed with ultra-high efficiency, as well as built-in intelligent control. The extraordinary performances of circuit design provide the charger with high power density and high conversion efficiency. This series of chargers offer solid and safe power conversion with air cooling, long life time for a wide range of applications in super capacitor and battery charging applications.

Features:

- Input Voltage: 310~580Vac
- Output Power: 7200/9500W
- High Reliability
- High Efficiency: Up to 96%
- All-Around Protections: Phase Lack, OVP, UVLO , SCP, OTP
- Compatible with Air Cooling
- Low Temperature Start Up @ -40°C
- High Temperature Full Load Operation @ 50°C
- IP20 Ingress Grade
- CAN Communication
- Fully potted to ensure high reliability in rugged environments



Module Number	Maximum Output Current	Output Power	Voltage Range
EVC-80-7200 (PLD9080)	80A	7200W	0-90V
EVC-100-9500 (PLD10095)	95A	9500W	0-100V

Input Parameters		
Model Number	EVC-80-7200 (PLD9080)	EVC-100-9500 (PLD10095)
Input Voltage	310-580V	
Input Frequency	45-65Hz	
Max Input Current	15A	20A

Output Parameters		
Model Number	EVC-80-7200 (PLD9080)	EVC-100-9500 (PLD10095)
Output Voltage	0-90V	0-100V
Output Current	80A	95A
Max. Output Voltage	90V	100V
Current Accuracy	$\pm 1\% @ I_{out} > 2A$	
Voltage Accuracy	$\pm 0.5\%$	
Output Power	7200w	9500w
Efficiency	96%	
Dimension	480x320x138mm	
Weight	15kg	

General Specifications	
Short Circuit Protection	Hiccup Mode Self Recovery when fault is removed
Input UVP Protection	Enters Auto recovery mode when Input voltage is under 300V. The unit will return to normal operation when powered back on.
Input OVP Protection	Enters Auto recovery mode when Input voltage is over 590V. The unit will return to normal operation when powered back on.
Output OVP Protection	Enters Auto recovery mode when output voltage is over 96V. The unit will return to normal operation when powered back on.
Over Temperature Protection	The unit will go into thermal protection when the case temperature exceeds $85 \pm 5 \text{ }^\circ\text{C}$. The unit will enter hiccup mode and will self-recover when the temperature becomes normal at or below $85 \text{ }^\circ\text{C}$.

Notes:

(1) Specification is subject to change without notice.

Case Specifications:

Dimension: 320mm(W)*480mm(L)*138mm(H)

