



1750W Electric Vehicle Li-Ion Charger Data Sheet



Description:

Green Watt Power's 84V multifunction Li-ion battery charger is designed with built-in intelligent control and extraordinary circuit designs, providing performances of high power density, high reliability, and high efficiency. The module is designed with thermal management, anti-shock techniques, and long life time. This charger offers solid and safe power conversion for multiple fields such as e-vehicles, e-bikes, e-motorcycles, e-boat, e-balance car, e-tool and other Li-ion battery applications.

Features:

Input Voltage: 90~264VacOutput Power: 1750

Ultra-High Reliability

High Efficiency: Up to 94%

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

· Case Temperature 80ºC @ Full Load

Adaptive Power Derating

• IP65 Ingress Grade

• 12V/25W Isolated Auxiliary Output

CAN Communication



Model Number	Output Power	Output Voltage	Output Current	AUX Voltage	AUX Current
EVC-86-1750 (PLD1750-ECVD01-86)	1750W	58-86.4V	20A	12V	2.1A

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General Specifications			
Model Number	EVC-86-1750 (/PLD1750-ECVD01-86)		
Input Voltage	90-264V		
Input Frequency	47-63Hz		
Max Input Current	20A@115Vac, 10A@230Vac		
Output Voltage	Charging: 58~86.4V, AUX Output: 12V		
Output Current	20A max		
Max. Output Voltage	84V/86.4V (Adjustable)		
Output Voltage @ Open Circuit	84V/86.4V (Adjustable)		
AUX Output Voltage	12V		
AUX Output Current	2.1A		
Current Accuracy	±5%		
Voltage Accuracy	±3%		
Output Power	1750w		
Efficiency	92%@115Vac, 94%@230Vac		

Protection Specifications		
Short Circuit Protection	When output shorted, no components will be damaged. The charger shall enter into latch mode during short circuit protection and return to normal operation after the fault condition is removed and power supply is turned on again.	
Over Voltage Protection	The output voltage that triggers over voltage protection is less than 92V. The power supply shall enter auto-recovery mode during over voltage protection, and return to normal operation after the fault condition is removed	
Over Temperature Protection	When the power supply enters overheating protection condition, no components will be damaged. The power supply shall enter auto-recovery mode during over temperature protection, and return to normal operation after the fault condition is removed	
Open Circuit Protection	When output is opened, no components will be damaged. The power supply shall enter autorecovery mode during open circuit protection, and return to normal operation after the fault condition is removed	

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Electromagnetic Compatibility EMI/EMC		
EMI, RFI	Comply with EN55022 Class B	
Immunity:		
EN61000-3-2	Harmonic Current Emission	
EN61000-3-3	Voltage Fluctuations and Flicker	
EN61000-4-2	ESD 8kV Air Discharge, 4kV Contact Discharge, Criteria A	
EN61000-4-3	Radio-Frequency Electromagnetic Field Susceptibility Test-Rs Level 3, Criteria A	
EN61000-4-4	Electrical Fast Transient/Burst-EFT 4KV, Criteria A	
EN61000-4-5	Surge Immunity Test, AC Power Line: Line to Line 2kV; Line to Earth 4kV, Criteria B	
EN61000-4-6	Conducted Radio Frequency Disturbance Test-Cs Level 3, Criteria A	
EN61000-4-8	Power Frequency Magnetic Field Test 3A/m, Criteria A	
EN61000-4-11	Voltage Dips Criteria B	

Charging Curve

