



110W Electric Vehicle Charger Data Sheet



Description:

Green Watt Power's "Oasis-G" series 110W general purpose Li-ion battery charger is designed with CoC V5, DoE Level VI efficiency standard, high reliability and long life time. This series of chargers cover the output voltage range of 27~64V, suitable for a variety of applications with 10~15 Li-ion battery cells in series, such as electric tools, e-scooters, e-bikes, Li-ion battery packs, etc.

Features:

- Comply with CoC V5 & DoE Level VI
- No-Load Consumption ≤0.21W
- Universal AC Input: 180~264Vac
- Output Voltage: 27~64V (10~15 Li-Ion Battery Cells in Series)
- 40°C Full Load Operation without Derating
- Constant Voltage / Constant Current Charging
- Optional Intelligent Output Control: Reverse Polarity Protection, Zero Leakage Current, etc.
- All-Around Protections: OVP, OCP, SCP, OTP
- Built-In LED Charging Status Indicator
- 5000m Altitude Operation
- Global Safety Certification: UL, CE, CCC, KC, PSE, CB, GS, SAA
- RoHS Compliant
- World-Wide Input/Output Connectors Available



Model Number	Output Power	Output Voltage	Output Current	Suitable for Li-lon Battery Cell in Series
EVC-42-90 (PLD110H-4200215)	90W	27.0-42.0V	2.15A	105
EVC-55-110 (PLD110H-5460200)	110W	35.5-54.6V	2.00A	135
EVC-63-110 (PLD110H-6300174)	110W	40.5-63.0V	1.74A	15S

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Electrical Specifications:

Input Parameters				
	Min	Тур	Max	Units
Input Voltage Range* *Designed to optimum performance at 110 and 220 nominal lines	180		264	VA C
Input Frequency	47		63	Hz
Power Factor-230VAC			125	W
Input Current-230 VAC			1.32	Α
Efficiency-200~240Vac, 25°C	88			%

Output Parameters			
Model	EVC-63-110/ PLD110H-6300174	EVC-55-110/ PLD110H-5460200	EVC-42-90/ PLD110H-4200215
Output Voltage	40.5-63V	35.5-54.6V	27-42V
Full Charging Voltage	63V	54.6V	42V
Constant Charging Current	1.74A	2.00A	2.15A
Current Accuracy		±5%	
Voltage Accuracy		±1%	
Output Power	110W	110W	90W

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General Specifications				
Short Circuit Protection	When output is sh	norted, no compon	ents will be damaged.	
	The power supply	shall enter auto-re	ecovery mode during	
			o normal operation	
	after the fault con	dition is removed.		
Over Voltage Protection	The output voltage that triggers over voltage protection is			
	less than 80 Vdc.	· · · · ·		
			protection, and return	
	to normal operati	on after the fault o	condition is removed.	
Over Temperature Protection			heating protection	
	condition, no com	•	•	
			ecovery mode during	
	over temperature	protection, and re	eturn to	
	normal operation	after the fault con	dition is removed.	
Open Circuit Protection	When output is or	When output is open, no components will be damaged.		
	The power supply shall enter			
			cuit protection, and	
	return to normal operation after the fault			
	condition is removed			
MTBF: 25°C, 230Vac input , Full Load	≥ 100,000 Hours	≥ 100,000 Hours		
Product Life 25°C, 230Vac input	≥ 15,000 Hours	≥ 15,000 Hours		
Temperature - Operating	MIN	-10	0.0	
	MAX	+40	ōС	
Temperature - Storage	MIN	-40	ºC	
	MAX	+85	<u>≅</u> (
Relative Humidity	Operating Hu	Operating Humidity 10% - 90%		
	Storage Humi	Storage Humidity 10% - 100%		
Case Size		137x57.5x34.5mm		
Unit Weight		TBD kg		

Electromagnetic Compatibility EMI/EMC		
EMI, RFI	Comply with EN55022 Class B, EN55032 Class B	
Immunity:		
EN61000-3-3	Voltage Fluctuations and Flicker	
EN61000-4-2	ESD 8kV Air Discharge, 4kV Contact Discharge, Criteria A	
EN61000-4-4	Electrical Fast Transient/ Burst-EFT 1KV	
EN61000-4-5	Surge Immunity Test, AC Power line: Line to Line 1kV	
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	

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Case Specifications:

