



84W Electric Vehicle Charger Data Sheet



Description:

Green Watt Power's "Oasis-S" series 84W intelligent Li-ion battery charger series is designed with high efficiency, high reliability and long life time. This series of chargers cover the output voltage of 17~42V, suitable for a wide range of applications with intelligent control and 7~10 Li-ion battery cells in series, such as electric tools, e-scooters, e-bikes, Li-ion battery packs, etc..

Features:

- Universal AC Input: 90~264Vac
- Output Voltage: 17~42V (7~10 Li-Ion Cells in Series)
- 40°C Full Load Operation without Derating
- Constant Voltage / Constant Current Charging
- Intelligent Output Control: Reverse Polarity Protection, Zero Leakage Current, etc.
- All-Around Protections: OVP, OCP, SCP, OTP, RCP
- **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-Ion Battery Cell in Series
EVC-29-59 (PLD084S-2940200)	58.8W	17.0-29.4V	2.00A	7S
EVC-42-84 (PLD084S-4200200)	84W	27-42V	2.00A	10S

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Specifications:

Input Parameters					
Model	E/	EVC-29-59 (PLD084S-2940200)		EVC-42-84 (PLD084S-4200200)	
Input Voltage		90~264Vac		90~264Vac	
Max. Input Voltage		320Vac, 20s			
Input Frequency		47~63Hz			
Max. Input Current		0.8A @ 230Vac		1.1A @ 230Vac	
Max. Input Power		68W @ 230Vac		96W @ 230Vac	

Output Parameters				
Model	EVC-29-59 (PLD084S-2940200)	EVC-42-84 (PLD084S-4200200)		
OutputVoltage	17~29.4V	27~42V		
Full Charging Voltage	29.4V	42V		
Constant Charging Current	2.0A	2.0A		
Current Accuracy	± 5%			
Voltage Accuracy	± 1%			
Output Power	58.8W	84W		

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General Specifications				
Short Circuit Protection	When its output is shorted, the power supply will enter			
	hiccup mode, and will self-recover when the fault			
	condition is removed.			
Over Voltage Protection	The output voltage that triggers over voltage protection is			
	less than 100Vdc. 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			
	auto-recovery mode during open circuit 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			
Temperature - Operating	MIN	-10	0.0	
	MAX	+40	ōС	
Temperature - Storage	MIN	-40	0.0	
	MAX	+85	ōС	
Relative Humidity	Operating Humidity 10% - 90%			
	Storage Humidity 10% - 100%			
Case Size	13	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	





Case Specifications:

