



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
- Fully potted to ensure high reliability in rugged environments



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	7 S
EVC-42-84 (PLD084S-4200200)	84W	27-42V	2.00A	10S

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Specifications:

Input Parameters					
Model	E,	VC-29-59 (PLD084S-2940200) EVC-2		12-84 (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	Power 68W @ 230Vac			96W @ 230Vac	

Output Parameters				
Model	EVC-29-59 (PLD084S-2940200)	EVC-42-84 (PLD084S-4200200)		
Output Voltage	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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When its output is shorted, the power supply will enter			
hiccup mode, and will self-recover when the fault			
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.			
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.			
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			
≥ 100,000 Hours	≥ 100,000 Hours		
≥ 15,000 Hours			
MIN	-10	<u>°</u> C	
MAX	+40	<u> </u>	
MIN	-40	<u>°</u> C	
MAX	+85	ي _	
Operating Humidity 10% - 90%			
Storage Humidity 10% - 100%			
13	137x57.5x34.5mm		
	hiccup mode, and condition is remove The output voltage less than 100Vdc. recovery mode due to normal operation. When the power supply over temperature normal operation. When output is one of the power supply auto-recovery more turn to normal condition is removed ≥ 100,000 Hours. ≥ 15,000 Hours. MIN MAX MIN MAX Operating Humidical Storage Humidity	hiccup mode, and will self-recover we condition is removed. The output voltage that triggers over less than 100Vdc. The power supply recovery mode during over voltage is to normal operation after the fault of the power supply enters over condition, no components will be day the power supply shall enter autorover temperature protection, and resolvent is opened, no component to the power supply shall enter autore over temperature protection, and resolvent is opened, no component the power supply shall enter autorecovery mode during open cirreturn to normal operation after the condition is removed ≥ 100,000 Hours MIN -10 MAX +40 MIN -40 MAX +85 Operating Humidity 10% - 90% Storage Humidity 10% - 100%	

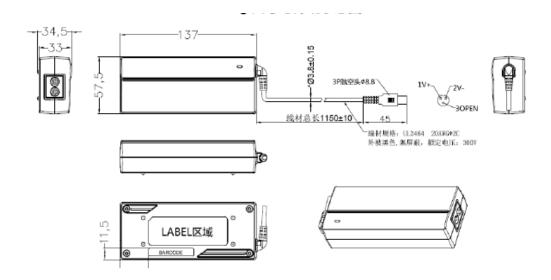
Electromagnetic Compatibility EMI/EMC		
EMI, RFI	Comply with EN55022 Class B, EN55032 Class B	
Immunity:		
EN61000-3-3	Voltage Fluctuations and Flicker	
EN61000-4-2	ESD 8kV Air Discharge, 4kV Contact Discharge, Criteria A	
EN61000-4-4	Electrical Fast Transient/ Burst-EFT 1KV	
EN61000-4-5	Surge Immunity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



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