

## 840W Electric Vehicle Charger Data Sheet



### Description:

GWP's 840W Li-ion battery chargers are designed with ultra-high efficiency, as well as full metal case enclosure. The extraordinary performances of low-power dissipation and moisture protection with IP65 provide the chargers high reliability and long lifetime. This series of chargers offers excellent and safe power conversion for applications such as e-vehicles, e-bikes, e-motorcycles, e-boat, e-machines, etc.

- Input Voltage: 185~264Vac
- Output Power: 840W
- Ultra High Reliability
- High Efficiency: Up to 94%
- All-Around Protections: OVP, OCP, SCP, OTP, RCP
- Timer Off Function
- Auto Off @ No Load
- Low Temperature Start Up @ -10°C
- High Temperature Full Load Operation @ 45°C
- CAN Communication
- IP65 Ingress Grade
- Fully potted to ensure high reliability in rugged environments



Model Number	Output Power	Output Voltage	Output Current	Output Current Range
EVC-70-840 (PLD840-EVC-70)	840W	46~70V	12A	95~105%Io
EVC-84-840 (PLD840-EVC-84)	840W	53~84V	10A	95~105%Io

<b>Input Parameters</b>				
	Min	Typ	Max	Units
Input Voltage Range*	185-264			VAC
Input Frequency	47-63			Hz
Max. Input Current			66.5	A
Max. Input Power			950	W
Efficiency	94			%

<b>Output Parameters</b>			
	PLD840-EVC-70	PLD840-EVC-84	Units
Output Voltage	46-70	53-84	VDC
Output Current	12	10	A
Max. Output Voltage	70.4	84	VDC
Current Accuracy	$\pm 5$		%
Voltage Accuracy	$\pm 5$		%
Output Power	840	840	W

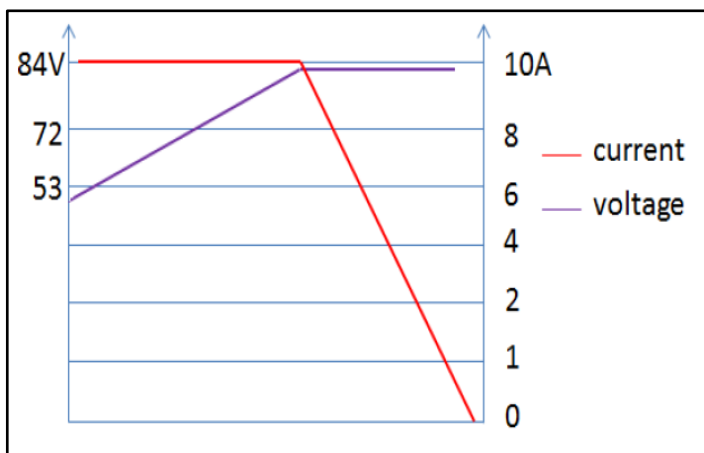
<b>General Specifications</b>			
Temperature - Operating	MIN MAX	-10 +45	°C
Relative Humidity	10% - 100%		
MTBF	> 500,000 hours, 25°C, 230V input, Full load		
Life Time	> 15000 hours, 25°C, 230V input, Full load		
Waterproof	IP65		
Case Size	178x162x48mm		
Unit Weight	2kg		

<b>Electromagnetic Compatibility EMI/EMC</b>	
<b>EMI, RFI</b>	Comply with EN55002 Class A
<b>Immunity:</b>	
EN61000-3-2	Harmonic Current Emission
EN61000-3-3	Voltage Fluctuations and Flicker
EN61000-4-2	ESD 8kV Air Discharge, 4kV Contact Discharge
EN61000-4-3	Radio-Frequency Electromagnetic Field Susceptibility Test-Rs
EN61000-4-4	Electrical Fast Transient/Burst – EFT
EN61000-4-5	Surge Immunity Test, AC power line: line to line 2kV, line to earth 4kV
EN61000-4-6	Conducted Radio Frequency Disturbance Test-CS
EN61000-4-8	Power Frequency Magnetic Field Test
EN61000-4-11	Voltage Dips

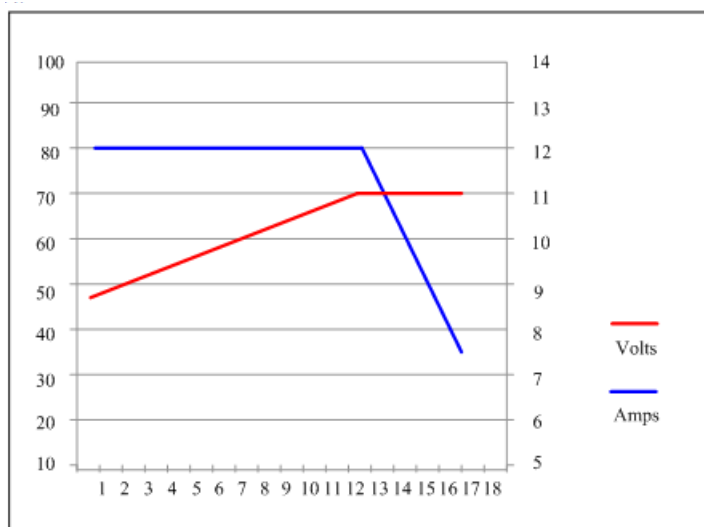
## Notes:

(1) Specification is subject to change without notice.

## Charging Curve:



PLD840-EVC-84



PLD840-EVC-70