

280 Watt Li-Ion Battery Charger Data Sheet



Description:

Green Watt Power's "Black Diamond" series 36V Li-ion battery chargers are designed with high efficiency, as well as having a full metal case enclosure. The extraordinary performances of low-power dissipation and waterproof provide high reliability and long life time. This series of chargers offer solid and safe power conversion for applications such as e-vehicles, e-bikes, e-motorcycles, e-boat, e-machines, etc.

Features:

- Universal AC Input (90~264Vac)
- Output Power: 280W
- Ultra High Reliability
- High Efficiency: Up to 93%
- All-Around Protections: OVP, OCP, SCP, OTP
- Low Temperature Start Up @ -20°C
- High Temperature Full Load Operation @ 50°C
- IP65 Ingress Grade
- Fully potted to ensure high reliability in rugged environments



Model Number	Output Power	Output Voltage	Output Current	Output Current Range
EVC-42-280 (PLD280-EVCS06-42)	280W	25-42V	6.6A	95-105%Io

Specifications:

Input Parameters	
Model Number	EVC-42-280 (PLD280-EVCS06-42)
Input Voltage	90-264V
Input Frequency	47-63Hz
Max.Input Current	3A@115Vac 1.6A@230Vac
Max.Input Power	320W

Output Parameters	
Model Number	EVC-42-280 (PLD280-EVCS06-42)
Output Voltage	25-42V
Output Current	6.6A
Max. Output Voltage	42V
Output Voltage@ Open Circuit	42V
Current Accuracy	±5%
Voltage Accuracy	±0.5%
Output Power	280W
Efficiency	90%@115Vac 93%@230Vac
Ingress Protection	IP65
Working Temperature	-20~50°C
Max Case Temperature	<55°C@25°C Ambient Temperature
EMI	EN55014
Protection	OVP, OCP, SCP, OTP
Dimension	210x88x51mm
Weight	1.92kg
Lifetime	30,000 Hours at 25°C, 230Vac Input, and Continuous Full Load Output

Data Sheet is being revised