



## Description

Powerland's "Diamond" series 48V/60V/72V 750W~1700W Li-Ion battery chargers are designed with ultra high efficiency, as well as metal case enclosure with fan. The extraordinary performances of low power dissipation and water proof provide the charger high reliability and super long life time. This charger offers solid and safe power conversions for applications such as electric motorcycles, e-boat, e-machines, etc.



## Applications

- E-vehicles
- E-motorcycles
- I-robots
- E-boats
- E-machines

## Features

- Input Voltage: 180~264Vac
- Output Power: 750~1700W
- Small Size
- High Thermal Performance
- Ultra High Reliability
- High Efficiency
- IP65 Ingress Protection
- Ultra High Power Factor
- Fast Charging Feature
- All-Around Protections: OVP, UVP, SCP, OCP, OTP, RCP
- With LED Indicator
- CAN/RS485/Enabled Function Optional

# Specifications

Model	PLD750-EVCGX01-29
Output Voltage	24.6~30V
Output Current	25A
Max. Output Voltage	30V
Current Accuracy	±0.3A
Voltage Accuracy	±0.2V
Output Power	725W
Input Voltage	90~264Vac
Input Frequency	45~65Hz
Max. Input Current	3.75A Max @230Vac
Max. Input Power	850W
Power Factor	0.95
Efficiency	92%
Communication	RS485/CAN/Enabled Functions/Customized
Protections	OVP, UVP, SCP, OCP, OTP, RCP
Ingress Protection	IP65
Working Temperature	-20~45°C
Cooling	Fan Cooling
Max. Case Temp.	85°C @25°C Ambient Temp.
Surge Protection	1kV/2kV
Safety	cTUVus, CE, KC, PSE, CB, SAA, FCC
Isolation	Primary to Secondary: 3000Vac 10mA max./60s Primary to Earth: 1500Vac 10mA max./60s Secondary to Earth: 500Vac 10mA max./60s
Dimensions (LxWxH)	279x109x73.5mm
Weight	3kg

# Specifications

Model	PLD1000-EVFX01-05820SC	PLD1000-EVFX01-07415SC	PLD1000-EVFX01-08512SC
Output Voltage	29~58.8V	40~74.4V	20~86V
Output Current	20A	15A	12A
Max. Output Voltage	58.8V	74.4V	86V
Current Accuracy	$\pm 0.3A$		
Voltage Accuracy	$\pm 0.2V$		
Output Power	1000W		
Input Voltage	180~264Vac		
Input Frequency	45~65Hz		
Max. Input Current	4.8A Max @230Vac		
Max. Input Power	1100W		
Power Factor	0.95		
Efficiency	92%		
Communication	RS485/CAN/Enabled Functions/Customized		
Protections	OVP, UVP, SCP,OCP, OTP,RCP		
Ingress Protection	IP65		
Working Temperature	-20~45°C		
Cooling	Fan Cooling		
Max. Case Temp.	85°C @25°C Ambient Temp.		
Surge Protection	1kV/2kV		
Safety	CE		
Isolation	Primary to Secondary: 3000Vac 10mA max / 60s Primary to Earth: 1500Vac 10mA max./60s Secondary to Earth: 500Vac 10mA max./60s		
Dimensions (LxWxH)	279x109x73.5mm		
Weight	3kg		

# Specifications

Model	PLD1700-EVFX01-05830SC	PLD1700-EVFX01-07423SC	PLD1700-EVFX01-08520SC
Output Voltage	29~58.8V	40~74.4V	20~86V
Output Current	30A	23A	20A
Max. Output Voltage	58.8V	74.4V	86V
Current Accuracy	±0.3A		
Voltage Accuracy	±0.2V		
Output Power	1700W		
Input Voltage	180~264Vac		
Input Frequency	45~65Hz		
Max. Input Current	8A Max @230Vac		
Max. Input Power	1850W		
Power Factor	0.95		
Efficiency	92%		
Communication	RS485/CAN/Enabled Functions/Customized		
Protections	OVP, UVP, SCP,OCP, OTP,RCP		
Ingress Protection	IP65		
Working Temperature	-20~45°C		
Cooling	Fan Cooling		
Max. Case Temp.	85°C @25°C Ambient Temp.		
Surge Protection	1kV/2kV		
Safety	CE		
Isolation	Primary to Secondary: 3000Vac 10mA max./60s Primary to Earth: 1500Vac 10mA max./60s Secondary to Earth: 500Vac 10mA max./60s		
Dimensions (LxWxH)	279x109x73.5mm		
Weight	3kg		