

## **DIAMOND SERIES** | 48V/60V/72V 1500W~2400W Li-Ion Battery Chargers



### Description

Powerland's "Diamond" series 48V/60V/72V 1500W~2400W 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

- Universal AC Input: 90~264Vac
- Output Power: 1500~2400W
- Built in 12V 60W AUX output power
- Small Size
- High Thermal Performance
- Ultra High Reliability
- High Efficiency
- Ultra High Power Factor
- Fast Charging Feature
- All-Around Protections: OVP, UVP, SCP, OCP, OTP, RCP
- With LED Indicator
- IP67 Ingress Protection
- CAN/Enabled Function Optional

## Specifications

Model	PLD1500-EVCSXX-XX					
Output Voltage	28~64V	48~74V	55~84V	60~126V	70~156V	80~172V
Output Current	25A	22A	18A	12A	10A	8A
Current Accuracy	±0.5A					
Voltage Accuracy	±0.5V					
Output Power	1500W					
Input Voltage	90~264Vac					
Input Frequency	45~65Hz					
Power Factor	> 0.98					
Max. Input Current (100~120V)	16.0A					
Max. Input Current (200~240V)	13.6A					
Efficiency	92%					
Communication	CAN					
Protections	OVP, UVP, SCP,OCP, OTP,RCP					
Ingress Protection	IP67					
Working Temperature	-20~45°C					
Cooling	Fan Cooling					
Max. Case Temp.	85°C @25°C Ambient Temp.					
Surge Protection	1KV/2KV					
Safety	UL, CE, KC, PSE, CB, SAA、FCC?					
Isolation	P-S: 3000Vac 10mA max./60s P-E: 1500Vac 10mA max./60s S-E: 500Vac 10mA max./60s					
Dimensions (LxWxH)	On-Board: 248x120x78mm / Off-Board:276x120x78mm					
Weight	On-Board: 3.8kg / Off-Board:4.0kg					

## Specifications

Model	PLD2400-EVCSXX-XX		
Output Voltage	28~58.8V	48~74V	55~84V
Output Current	40A	35A	30A
Current Accuracy	±0.5A		
Voltage Accuracy	±0.5V		
Output Power	2400W		
Input Voltage	180~264Vac		
Input Frequency	45~65Hz		
Power Factor	13.6A		
Max. Input Current (200~240V)	>0.98		
Efficiency	92%		
Communication	CAN		
Protections	OVP, UVP, SCP,OCP, OTP,RCP		
Ingress Protection	IP67		
Working Temperature	-20~45°C		
Cooling	Fan Cooling		
Max. Case Temp.	85°C @25°C Ambient Temp.		
Surge Protection	1KV/2KV		
Safety	UL, CE, KC, PSE, CB, SAA, FCC		
Isolation	P-S: 3000Vac 10mA max./60s P-E: 1500Vac 10mA max./60s S-E: 500Vac 10mA max./60s		
Dimensions (LxWxH)	On-Board: 248x120x78mm / Off-Board:276x120x78mm		
Weight	On-Board: 3.8kg / Off-Board:4.0kg		