



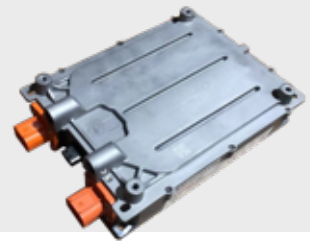
## Description

Powerland's "Ruby" series 3.3kW/3.4kW on-board Li-ion battery chargers are designed with ultra high power density, as well as full metal case enclosure. The excellent power conversion efficiency and thermal management provides the on-board standard chargers ultra high reliability and super long life time. This series of chargers offer solid and safe power conversions for applications such as e-vehicles, e-bus, e-boat, etc.

Fan Cooling Version



Liquid Cooling Version



## Applications

- E-vehicles
- E-motorcycles
- E-boats
- E-machines

## Features

- Universal AC Input: 90~264Vac
- Output Power: 3.3kW/3.4kW
- Ultra High Reliable On-Board Design
- Compatible with Liquid Cooling and Air Cooling
- All-Around Protections: OVP, OCP, SCP, OTP, UVLO
- Low Temperature Start Up @ -40°C
- High Temperature Full Load Operation @ 60°C
- High Efficiency: Up to 96%
- IP67 Ingress Grade
- CAN Communication

# Specifications

Model	PLD3300- EVCS02-420	PLD3300- EVCS02-420-J	PLD3300- EVCS02-420L	PLD3300- EVCS02-420L-J	PLD3300- EVCS03-420L
Output Voltage	200~420V				
Output Current	10A				
Max. Output Voltage	420V				
Current Accuracy	±0.3A				
Voltage Accuracy	<±2%				
Output Power	3300W				
Input Voltage	85~265Vac				
Input Frequency	45~65Hz				
Max. Input Current	14.5A @230Vac				
Max. Input Power	4000W				
Power Factor	0.98				
Efficiency	96%				
Communication	CAN	CAN+J1772	CAN	CAN&J1772	
Protections	OVP, OCP, SCP, OTP, UVLO				
Ingress Protection	IP67 for Module				
Working Temperature	-40~85°C				
Cooling	Fan Cooling		Liquid Cooling		
Max. Case Tem.	85°C @25°C Ambient Temp.				73°C@ 25°C Ambient Temp.
EMI	EN55032 Class B				
Surge Protection	2kV/4kV				
Isolation	Primary to Secondary: 3000Vac / 10mA Max / 60s Primary to Earth: 1500Vac 10mA max./60 s Secondary to Earth: 2000Vdc 10mA max./60s				
Dimensions (LxWxH)	272.7x186x71.7mm		272.7x186x43.7mm		286.5x221.5x74.7m m
Weight	5kg				

# Specifications

Model	PLD3400- EVCS02-122F	PLD3400- EVCS02-122	PLD3400- EVCS02-84	PLD3400- EVCS02-84L	PLD3400- EVCS02-84LJ	PLD3400- EVCS02-84FJ
Output Voltage	70~122V		55~84V			
Output Current	34A		40A			
Max. Output Voltage	122V		84V			
Current Accuracy	± 3%		± 5%			
Voltage Accuracy	± 1%		± 1V			
Output Power	1700W/3400W					
Input Voltage	90~264Vac					
Input Frequency	45~65Hz					
Power Factor	≥0.98					
Efficiency	93%					
Communication	CAN				CAN&J1772	
Protections	OVP, OCP, SCP, OTP, UVLO					
Ingress Protection	IP65					
Working Temperature	-40~60°C					
Cooling	Fan Cooling	Liquid Cooling	Fan Cooling	Liquid Cooling		Fan Cooling
Max. Case Temp.	<85°C @25°C Ambient Temperature					
EMI	EN55032 class B					
Surge Protection	2kV/4kV					
Isolation	Primary to Secondary: 3000Vac/10mA max./60s Primary to Earth: 1500Vac/10mA max./60s Secondary to Earth: 500Vac/10mA max./60s					
Dimensions (LxWxH)	Liquid Cooling : 240x187x43.5mm Air Cooling: 240x187x70mm					
Weight	Liquid Cooling : 4.9kg Air Cooling: 5.2kg					