

## Descriptions

Powerland's 11kW high density on-board charger complies with both single phase and three phase input. It is 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.



## Features

- Comply with Three Phase and Single Phase Input
- Output Power: 11kW
- Ultra High Reliable On-Board Design
- Compatible with Liquid Cooling
- High Efficiency: Up to 95%
- All-Around Protections: OVP, OCP, SCP, OTP, UVLO
- Low Temperature Start Up @ -30°C
- High Temperature Operation @ 65°C
- IP67 Ingress Grade

## Models

Model Number	Output Power	Output Voltage	Output Current
PLD11K-SEAL-420	11000W	200~420V	36A

## Electrical Specifications

Model	PLD11K-SEAL-420
Output Voltage	200~420V
Output Current	36A
Output Power	11kW
Current Accuracy	$< \pm 0.8A$
Voltage Accuracy	$< \pm 1\%$
Current Ripple	$< 8A$
Input Voltage	148~460Vac, Line to Line @ Three Phase Three Wire / Three Phase Four Wire 85~265Vac, Line to Neutral @ Single Phase
Input Frequency	45~65Hz
Max. Input Current	$< 16A$ @ Three Phase, $< 40A$ @ Single Phase
Power Factor	$\geq 0.99$ @Full Load, $\geq 0.98$ @Half Load
THD	$\leq 3\%$ @Full Load, $\leq 5\%$ @Half Load
Efficiency	95% @380Vac
Standby Power	$< 0.1\%$ Full Load Power
Communication	CAN
Operation Temperature	$-30 \sim 65^{\circ}C$ (Derating Above $50^{\circ}C$ )
Relative Humidity	5%~95%
Storage Temperature	$-40 \sim 85^{\circ}C$
Cooling	Liquid Cooling
Ingress Grade	IP67
EMI	EN55032 Class B
ESD	EN61000-3-11,12, EN61000-4-2,3,4,5,6,11
Surge Protection	YD 5098-2005 5kA
Dimensions (LxWxH)	400x225x75mm
Weight	$< 12kg$
MTBF	400,000 Hours

\* Unless otherwise noted, the data are based on 25°C ambient temperature, 380Vac input voltage and full load.