

# 10kW 3-Phase Input Wide-Range Output Series Data Sheet

## Description:

Powerland’s 10kW wide-range output voltage charger is designed with three-phase input, as well as full metal case enclosure. The excellent power conversion efficiency and thermal management provide the standard chargers ultra high reliability and super long life time. This series of chargers offer solid and safe power conversions for applications such as radar, e-vehicles, etc.

## Features:

- 3-Phase AC/DC Charger
- Adjustable 20~500V Output for Different Application
- Ultra High Power Factor and Low THD
- Ultra High Reliability
- Supports Parallel and N+M Redundant Operation
- Compatible with Conduction, Forced Air or Liquid Cooling
- Operation Temperature Range: -40~60oC
- All-Around Protections: SCP, OCP, OVP, OTP
- CAN Communication



Model Number	Maximum Output Current	Voltage Range
EVC-500-10000 (PLD10K-380ACM01-500)	20 ADC	20V – 500V

Input Parameters				
	Min	Typ.	Max	Units
Input Voltage Range (3-Phase)	323	400	437	VAC
Input Frequency	47		63	Hz
Power Factor		0.98		
Input Current			20	A

<b>Output Parameters</b>				
	Min	Typ	Max	Units
Output Voltage	20		500	VDC
Out Current			20	A
Efficiency (400Vacinput, full load )		92		%

<b>General Specifications</b>	
Communication	CAN
Protections	SCP, OCP, OVP, OTP
Working Temperature	-40~60oC
Cooling	Compatible with Conduction, Forced Air Cooling or Liquid Cooling
Isolation	Input to Output: 3000Vac/10mA max./60s Input to Case: 3000Vac/10mA max./60s Secondary to Case: 2200Vac/10mA max./60s
Unit Weight	≤10kg
Dimensions	482.6x400x88mm

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