

# 5 kW Electric Vehicle Li-Ion Charger Data Sheet



## Description:

Green Watt Power’s 3-phase 5kW AC/DC chargers offer a high-efficiency, high-power density solution for a variety of applications. The module has current sharing function and supports up to 10 modules operating in parallel. CAN communication is implemented to realize real-time monitoring. This series of chargers offer solid and safe power conversion for applications such as e-vehicles, e-motorcycle and battery packs.

## Features:

- 3-Phase AC/DC Charger
- Adjustable Output 30V~58V for Different Applications
- High Efficiency
- CAN Communication
- Supports Parallel and N+M Redundant Operation
- Long Life Time Fan Cooling
- Touch Screen User Interface
- Operation Temperature Range: -40~55°C
- Input OVP and UVP
- Output OCP, OVP, SCP, OTP
- Fully potted to ensure high reliability in rugged environments



Model Number	Input Voltage	Current Range	Output Voltage Range
EVC-58-5000 (PLD5000-M04-48)	3-phase 380Vac±15%	100A	30~58V

Input Parameters				
	Min	Typ	Max	Units
Input Line Voltage	300	400	450	VAC
Input Frequency	45	50	55	Hz
Power Factor		0.85	0.9	
Input Current			10	A

<b>Output Parameters</b>				
	Min	Typ	Max	Units
Output Power			5000	W
Output Voltage	40	48	58	VDC
Output Current			100	A
Efficiency-400VAC Input, full load	93			%
Voltage Accuracy			±0.1V	
Line Regulation			±0.2	%
Load Regulation			±0.5	%
Noise			200	mV
Dynamic recovery time			2000	us
Voltage Overshoot			±5	%
Turn On delay time		5	10	s
Temperature coefficient			±0.1%	%/°C

General Specifications				
	Min	Type	Max	Unit
OVP	60.5	61.5	62.5	VDC
UVP	34	36	38	VDC
Current limit			100	A
OCP			125	A
SCP-Auto Recovery				
OTP-Auto Recovery		85	90	°C

**Case Specifications:**

W\*L\*H=310\*376.5\*100mm

