



## Features

- Universal AC Input: 90~264Vac
- Output Power: 6.6kW
- Ultra High Reliable On-Board Design
- Compatible with Liquid Cooling and Air Cooling
- High Efficiency: Up to 96%
- All-Around Protections: OVP, OCP, SCP, OTP, UVLO
- Low Temperature Start Up @ -40°C
- High Temperature Full Load Operation @ 60°C
- IP67 Ingress Grade
- CAN Communication

## Descriptions

Powerland's "Enigma" series "2 in 1" on-board chargers are integrated two core functions into one package, which includes a 6.6kW charger and a 2.5kW low-voltage DCDC converter. These features enable system-level downsizing, reducing the weight of electric vehicles.

Featured with bi-directional charging and discharging functions, this series of chargers are widely used in electric vehicles, energy storage systems, etc.

## Applications

- E-vehicles
- Energy storage systems



## Electrical Specifications

<b>Model</b>	<b>PLD6600-EVCB01</b>
<b>AC→DC</b>	
<b>Input Voltage</b>	90~264Vac
<b>Input Current</b>	≤32A
<b>Power Factor</b>	0.99
<b>Output Voltage</b>	265~500/ 500~750V
<b>Output Current</b>	22A
<b>Output Power</b>	6.6kW
<b>Current Accuracy</b>	±2%
<b>Voltage Accuracy</b>	±1%
<b>Efficiency</b>	96%
<b>DC→DC</b>	
<b>Input Voltage</b>	280V~500V/500V~750V
<b>Output Voltage</b>	13.5~14.5V
<b>Max. Output Current</b>	200A
<b>Output Power</b>	2.5kW
<b>Current Accuracy</b>	≤2%
<b>Voltage Accuracy</b>	≤1%
<b>Efficiency</b>	96%
<b>Miscellaneous</b>	
<b>Communication</b>	CAN
<b>Protections</b>	OVP, OCP, SCP, OTP, UVLO
<b>Ingress Protection</b>	IP67
<b>Working Temperature</b>	-40~85°C
<b>Cooling</b>	Liquid Cooling
<b>EMI</b>	Meet the technical standard of electric vehicle chargers
<b>Isolation</b>	Primary to Secondary: 2400Vac/10mA max./60s Primary to Earth: 2400Vac/10mA max./60s Secondary to Earth: 2400Vac/10mA max./60s
<b>Dimensions (LxWxH)</b>	310x270x70mm
<b>Weight</b>	8kg

\* The sampling time is about 6 months.