

## Descriptions

Powerland's EVD Series 2500W DC/DC power supplies for EV on-board DC/DC system is designed with ultra-compact size, high reliability and flexible digital control. It features a very high power density, small form factor and light-weight package .



## Features

- Extremely High Power Density: 200W/in<sup>3</sup>
- 1+1 Redundancy for High Reliability
- Ultra High Efficiency: Up to 96%
- Advanced EMI Design
- Flexible Cooling Options
- CAN Communication
- All-Around Protections: OVP, OCP, SCP, OTP
- Optimized for EV on-board Systems: High efficiency, High reliability

## Models

Model Number	Input Voltage	Output Power	Output Voltage	Output Current
PLD2500-EVD	380~420V	2500W	14.0V	180A

## Electrical Specifications

<b>Model</b>	<b>PLD2500-EVD</b>
<b>Typ. Output Voltage</b>	14V
<b>Output Voltage</b>	9~16V
<b>Output Current</b>	180A
<b>Output Voltage @ Open Circuit</b>	14V
<b>Voltage Accuracy</b>	± 1%
<b>Output Power</b>	2500W
<b>Max. Output Power</b>	2800W
<b>Max. Input Current</b>	9A
<b>Input Voltage</b>	380~420V
<b>Efficiency</b>	96%
<b>Communication</b>	CAN
<b>On/Off Control</b>	Yes
<b>Protections</b>	OVP, OCP, SCP, OTP
<b>Working Temperature</b>	-40~85°C
<b>Cooling</b>	Natural Cooling (With baseplate temperature ≤70°C)
<b>EMI</b>	CISPR 25 / GB18655 (with System)
<b>Isolation</b>	3000Vdc
<b>Dimensions (LxWxH)</b>	189.5x63.7x19mm
<b>Weight</b>	0.8kg
<b>Life Time</b>	150,000 Hours at 40°C, 400Vdc Input, and Continuous Full Load Output

\* Unless otherwise noted, the data are based on 25°C ambient temperature, 400V input voltage, and full load.