

## Descriptions

Powerland's EVD Series 600W/1000W DC/DC power supplies for EV on-board DC/DC system is designed with a compact size, high efficiency and flexible thermal management. It features advantages of high power density, high efficiency and high reliability.



## Features

- Input Voltage: 280~420Vdc
- High Power Density and High Maintainability
- 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
- Built-in EMI filter, comply with EMC standard CISPR25/GB/T18655 Class 3

## Models

Model Number	Input Voltage	Output Power	Output Voltage	Output Current
PLD600-EVD	280~420V	600W	14.0V	43A
PLD1000-EVD	280~420V	1000W	14.0V	72A

## Electrical Specifications

Model	PLD600-EVD	PLD1000-EVD
Typ. Output Voltage	14V	14V
Output Voltage	9~16V	9~16V
Output Current	43A	72A
Voltage Accuracy	± 1%	
Output Power	600W	1000W
Max. Output Power	720W	1200W
Input Voltage	280~420V	
Max. Input Current	3A	5A
Efficiency	96%	95%
Communication	CAN	
On/Off Control	Yes	
Protections	OVP, OCP, SCP, OTP	
Ingress Protection	IP67	
Working Temperature	-40~85°C	
Cooling	Natural Cooling (With Chilling baseplate)	
Max. Case Temperature	105°C	85°C
EMI	CISPR 25 (Class 3) / GB/T 18655-2018 (Class 3)	
Isolation	3500Vdc	
Dimensions (LxWxH)	164x109x31mm	
Weight	1.2kg	
Life Time	150,000 Hours at 40°C, 350Vdc Input, and Continuous Full Load Output	

\* Unless otherwise noted, the data are based on 25°C ambient temperature, 350V input voltage, and full load.