

1200 Watt EVD DC-DC Converter Data Sheet

Description:

Green Watt Power’s 1.2kW DC/DC modules are based on the PPU™ (Power Processing Unit) smart redundancy structure to realize higher power output within a ultra-small size. Designed for DC/DC applications in electrical vehicles, this series of PPU features high reliability, high-power density, high-efficiency and high thermal performance.

Features:

- PPU™ Smart Redundancy Structure
- Full Brick Form Factor
- Ultra High Efficiency and Power Density
- Wide-Range Input Voltage
- CAN Communication
- Wide-Range Output Voltage Adjustable
- Support Paralleled Operation
- Built-In Input Over Voltage and Under Voltage Protection
- Built-In Output Over Voltage Protection
- Automobile Standard Components



General Specifications

Model	EVD-600-1200-28 (PLD1200-DCSUP01-28)*	EVD-600-1200-36 (PLD1200-DCSUP01-36)*	EVD-600-1200-48 (PLD1200-DCSUP01-48)*
Input Voltage	400~800V	400~800V	400~800V
Rated Output Voltage	28V	36V	48V
Output Current	42.8A	33.3A	25.0A
Voltage Accuracy	±1%Vout		
Efficiency	94%		
Output Voltage Adj.	10~110%Vout		
Max Line Regulation	±0.2%Vout		
Max Load Regulation	±0.2%Vout		
Baseplate Temp.	-40°C to +100°C Baseplate		
Output Power	1200W		
Communication	CAN		
Isolation	Input to Baseplate: 1500VAC (1mA) for 1 min Input to Output 3000VAC (3mA) for 1 min Output to Baseplate: 500VAC(1mA) for 1 min		
Cooling	Compatible with Conduction, Air Cooling or Liquid Cooling		
Dimensions (LxWxH)	134.5x93.5x13.5mm		
Weight	0.3kg		

*Factory Model Numbers are in parenthesis

Note: Unless otherwise noted, the data are based on 25C ambient temperature, 540V input voltage, and full load.