

Descriptions

Powerland's 1.2kW DC/DC modules is based on the PPU™ (Power Processing Unit) smart redundancy structure. The system utilizes 1.2kW PPU modules in parallel to realize higher power output within a ultra small size.

Dedicately designed for DC/DC applications in electrical vehicles, this series of PPU features with 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

Models

Model Number	Input Voltage	Output Power	Output Voltage	Output Current
PLD1200-DCSUP01-28	400~800V	1200W	28V	42.8A
PLD1200-DCSUP02-36	400~800V	1200W	36V	33.3A
PLD1200-DCSUP03-48	400~800V	1200W	48V	25A

Electrical Specifications

Model	PLD1200-DCSUP01-28	PLD1200-DCSUP02-36	PLD1200-DCSUP03-48
Input Voltage	400~800V		
Output Voltage	28V	36V	48V
Output Current	42.8A	33.3A	25A
Voltage Accuracy	± 1%Vout		
Efficiency	94%		
Output Voltage Adjustment Range	10~110%Vout		
Max Line Regulation	± 0.2%Vout		
Max Load Regulation	± 0.2%Vout		
Baseplate Temperature	-40°C to +100°C Baseplate		
Output Power	1200W		
Communication	CAN		
Isolation	Input to Output: 4250Vdc (3mA) for 1 min Input to Baseplate: 3000Vdc (3mA) for 1 min Output to Baseplate: 750Vdc(3mA) for 1 min		
Cooling	Compatible with Conduction, Air Cooling or Liquid Cooling		
Dimensions (LxWxH)	134.5x93.5x13.5mm		
Weight	0.3kg		

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