

3.3/6.6KW | PPU Module



Description

Powerland's 3.3/6.6kW DC/DC modules are based on the PPU™ (Power Processing Unit) intelligent building block technology. Up to 200kW power systems can be easily built by paralleling the 3.3/6.6kW PPU modules to achieve high power density, high flexibility and ultra small sizes solutions. So far, this series is the industry's highest power density solution. Dedicatedly designed for DC/DC conversions in electrical vehicles and fuel cell systems, as well as energy storage systems, this series of PPU features with high reliability, high power density, high efficiency and high thermal performance.



Applications

- EV
- Full cell systems
- Energy storage systems

Features

- PPU™ smart redundancy structure
- Ultra high efficiency and power density, up to 739W/inch³
- Support paralleled operation
- Wide-range input voltage
- CAN communication
- Wide-range output voltage adjustable
- Pre-charge function dedicated for fuel cell systems
- Built-in input over voltage and under voltage protection
- Built-in output over voltage protection and over current protection

Specifications

Model	PLD6600-18FC01-450*	PLD6600-18FC01-450B*	PLD3300-18FC01-48**	PLD3300-18FC01-48B**	PLD3300-20FC01-48**	PLD3300-20FC01-48B**
Power Direction	Uni-direction	Bi-direction	Uni-direction	Bi-direction	Uni-direction	Bi-direction
Input Current	0~33A		6~120A		6~132A	6~90A
Input Voltage	50~300V (50~200V derating to 3300W)		28~96V		23~60V	40~60V
Output Voltage	300~450V		40~56V		40~58V	40~60V
Input Current Accuracy	±3A		±3A		±3A	
Output Voltage Accuracy	±5%		±1%		±1%	
Output Power	7000W		3300W			
Efficiency	97%					
Communication	CAN					
Protections	OVP, OTP , OCP, Open Circuit Protection					
Working Case Temperature	-40~65°C		-40~80°C		-40~65°C	
Working Temp. w/o Derating	-40~60°C		-40~70°C		-40~60°C	
Cooling	Double-side Conduction Cooling					
Dimensions (LxWxH)	114.6x83.5x18mm (input/output pins not included)					
Weight	0.55kg					

*Unless otherwise noted, the data are based on 25°C ambient temperature, 250V input voltage, and full load.

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