



Description

Poweland's "Atlas" series 2.5kW DC/DC module for EV on-board integrated DC/DC system converts the high voltage of battery into low voltage and provides energy for the low-voltage power consumption system on the vehicle. With PCB integration technology and magnetic integration technology, the power density reaches up to 12.3kW/L. Paralleling function can be used to achieve higher power. Featured with high power density, high efficiency and high reliability, this series offers solid and safe power conversions for EV and hybrid EV.



Applications

- EV
- Hybrid EV

Features

- DC/DC Unidirectional Energy Flow
- High Efficiency
- Built-In All-Around Protections
- EMC Comply with UN ECE R10, UL 2202
- Liquid Cooling
- Design for High Temperature and Humidity
- IP66 Ingress Grade
- CAN Communication

Specifications

Model	PLD2500-EVLD01
Output Voltage	9~16V
Output Current	0~180A
Output Power	2.5kW
Input Voltage	250~450V
Max. Input Current	11A
Efficiency	≥93%
Protections	Input UVP&OVP; Output OVP, OCP, OTP
Ingress Grade	/
Baseplate Temperature	-40~85°C
Cooling	Conduction heat dissipation
Communication	CAN
EMI	CISPR 25 Class 3 (EV test)
Isolation Voltage	Input to Output: 2000VAC/1min, No breakdown or damage, leakage current less than 10mA Or 2800VDC/1min, No breakdown or damage, leakage current less than 1mA
Dimensions (LxWxH)	130*85*22mm
Weight	≤500g