

125W DC/DC Converter Dual Output Data Sheet

Green Watt Power's 125W DC/DC power modules are designed with compact size, low cost, high efficiency and high reliability. Featured with a fully sealed mechanical structure and 12V/10A and 5V/2A dual outputs, this series offers solid and safe power conversions on electrical bike, electrical motorcycle and other DC/DC applications.

Features:

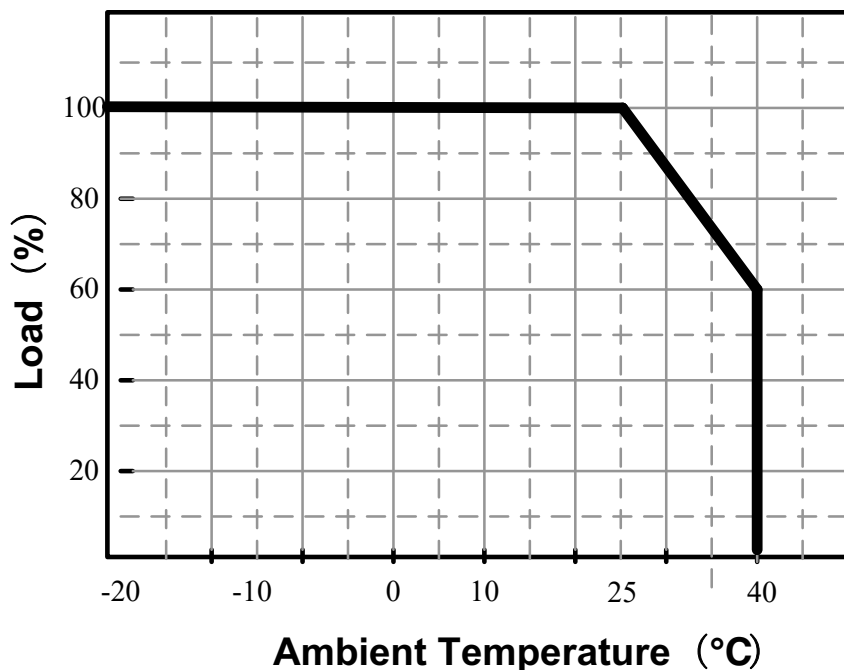
- Wide Input Voltage: 36~100Vdc
- Output Voltage: 12Vdc & 5Vdc
- High Reliability
- High Efficiency up to 87.5%
- Short Current Protection
- Natural Cooling
- Operating Temperature: -20~40°C
- IP65 Ingress Grade (Module only)
- Optional Enable



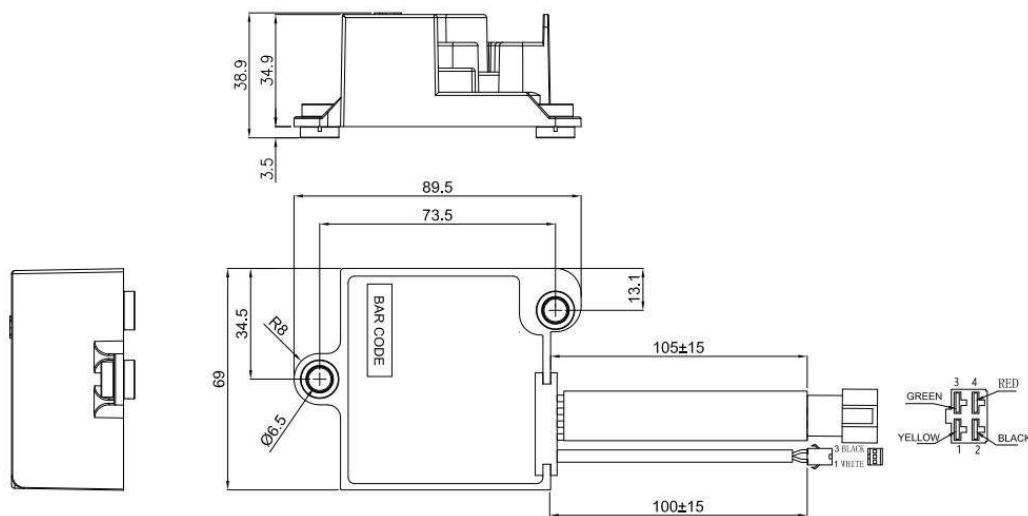
General Specifications	
Model with Enable	EVD-60-125-D12-5-E (PLD125-1DCF56A-12)
Model without Enable	EVD-60-125-D12-5 (PLD125-EVDN10-12)
Output Voltage	12Vdc & 5Vdc
Output Current	8A/2A (Continuous) 10A/2A ((Peak @ 5min
Output Voltage Accuracy	±5%
Output Power	106W (Continuous) 125W (Peak @ 5min.)
Input Voltage	36~100Vdc
Max. Input Current	4.5A
Efficiency Typical	89.5%
Protections	SCP
Ingress Protection	IP65 for module, IP20 with connector
Operation Temperature	-20~40°C
Cooling	Natural Cooling
Dimensions (LxWxH)	89.5x69x38.9mm
Hi-pot	Input & output to Case: 800Vac / 5mA Max / 60 seconds (3 seconds for production)
Isolation	Non-isolated
Weight	0.2kg
Output Short Circuit Protection	When output is shorted, the power supply will enter hiccup mode, and will self-recover when the fault condition is removed.
MTBF	The MTBF shall be at least 200,000 hours at 25oC, Rated input, and full load output.
Life Time	The life time shall be at least 15,000 hours at 25oC, Rated input, and full load output.

Notes: Specification is subject to change without notice. Model in parenthesis is factory number.

Derating Curve:



Mechanical:



Zhejiang Zhente Electric Co., Ltd. DJ7041-6.3-11

CONN A	WIRE COLOR	WIRE SPEC	NOTE
1	YELLOW	UL1007 AWG#18	Vin+
2	BLACK	UL1007 AWG#18	Vin-/12V-
3	GREEN	UL1007 AWG#18	ENA
4	RED	UL1007 AWG#18	12V+

WST P3-I25009 OR EQUIV

CONN A	WIRE COLOR	WIRE SPEC	NOTE
1	WHITE	UL2464 AWG#22	5V+
2			
3	BLACK	UL2464 AWG#22	5V-

Notes: 5V-, Vin-, and 12V- are all common terminals, as converter is not isolated. ENA (enable) function is optional model