

200W DC/DC Converter Data Sheet



Green Watt Power's 200W DC/DC power modules are designed with compact size, low cost, high efficiency and high reliability. Featured with a fully sealed mechanical structure and 13.8V/14A output, this series offers solid and safe power conversions on electrical bike, electrical motorcycle and other DC/DC applications.

Features:

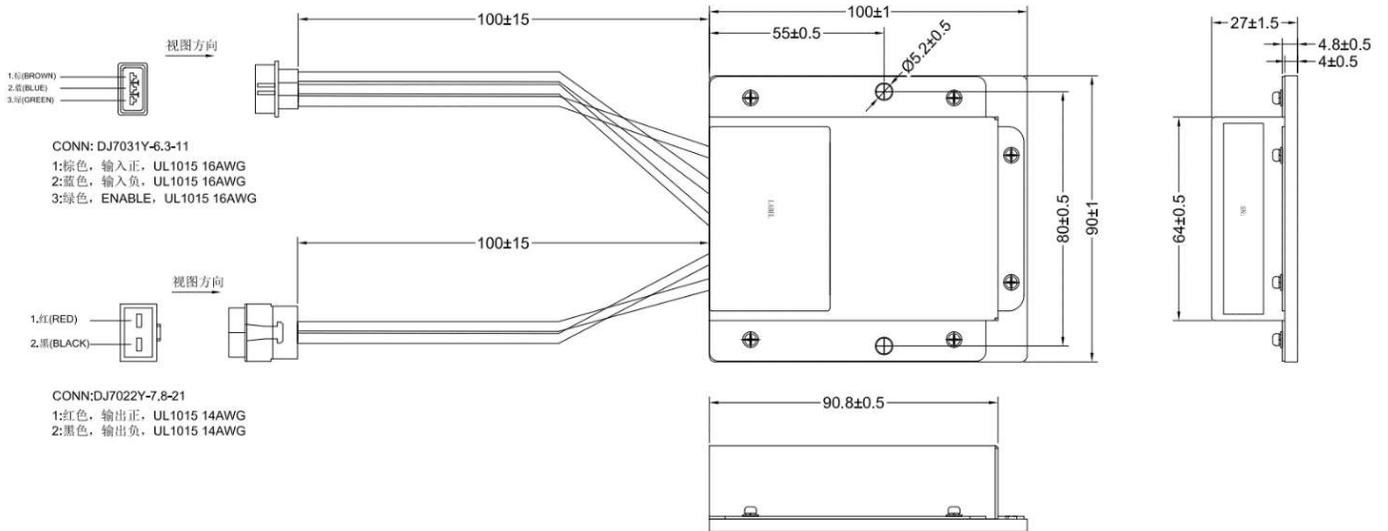
- Wide Input Voltage: 40~90Vdc
- Output Voltage: 13.8Vdc
- High Efficiency up to 89.5%
- Operating Temperature: -20~60°C
- IP65 Ingress Grade (Module only)
- Enable circuitry
- No external circuitry required
- No derating
- Very low input ripple and noise
- LED power good indication
- Continuous no load and short circuit protection with thermal shutdown
- Compact design: 100mmx90x27mm (3.9" × 3.5" × 1.1")



General Specifications	
Model Number	EVD-60-200-13 (PLD200-DAL014-13)
Output Voltage	13.8Vdc (Nominal)
Output Current	0~14A
Output Voltage Range	13.8 ± 0.7V
Output voltage ripple and noise (5MHz~20MHz Bandwidth)	500mV Peak-peak (Full load, 10uF AL CAP and 0.1u MLCC)
Output Power	193W (Continuous)
Input Voltage	40~90Vdc
Max. Input Current	17A
Efficiency Typical	89.5%
Protections	Input: Under-Voltage, Over-Voltage; Output: Over-Voltage, Over-Current, Short Circuit Protection (SCP)
Over Temp Protection	When the case temperature exceeds 95°C, the DCDC will go into over temperature protection, but can recover when temp is lowered.
Output Short Circuit Protection	When output is shorted, the power supply will not have any output, and will self-recover when the fault condition is removed.
Ingress Protection	IP65 for module
Operation Temperature	-20~60°C
Storage Temperature	-40~85°C
Relative Humidity	10~90% Non-condensing
Cooling	Natural Cooling
Dimensions (LxWxH) Case only (Case mounted on metal plate)	100.0mm x 90.0mm x 27.0mm (3.937" × 3.543" × 1.063")
Isolation	Non-isolated; Input to Case = 500Vdc; Isolation Resistance= 1MΩ
Weight	450 ± 45g

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

Mechanical:



Connector Info (Converter includes cable and female connectors):

Type	On Converter Cable (Female)	Manufacturer	Customer Connector (Male)	Manufacturer
Input Connector	DJ7031Y-6.3-11	Zhejiang Zhente Electric Co., http://www.cnzeet.com	DJ7031Y-6.3-21	Zhejiang Zhente Electric Co., http://www.cnzeet.com
Output Connector	DJ7022Y-7.8-21	Zhejiang Zhente Electric Co., http://www.cnzeet.com	DJ7022Y-7.8-11	Zhejiang Zhente Electric Co., http://www.cnzeet.com

Pin Info:

Pin No.	Function	Electrical determination
1	On/off	Regulator on - pin connected to Vin+ Regulator off - pin is left open
2	Vin+	Input voltage positive
3	Vin-	Input voltage negative
4	Vo-	Output voltage negative
5	Vo+	Output voltage positive

LED indicator:

Indicator	Color	Status	Note
Status	Green	On	Working
		Off	No output