

# 130W DC/DC Converter Dual Output Data Sheet



## Description:

Green Watt Power's 130W 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 5V/2A dual output, this series offers solid and safe power conversions on electric bike, electric motorcycle and other DC/DC applications.

- Wide Input Voltage: 36~92Vdc
- Output Voltage: 12Vdc & 5Vdc
- High Reliability
- Ultra-High Efficiency: Up to 96%
- Protection Features: SCP, Input UVP, Input Reverse Connection Protection
- Natural Cooling
- Operating Temperature: -20~60°C
- IP66 Ingress Grade



Module Number	Output Voltage	Maximum Output Current	Current Range	Voltage Range
EVD-60-130-D12-5 (PLD130-EVDO01-12)	12V	10A	0-8A	11.5V~12.5V
	5V	2A	0-2A	4.75V~5.15V

<b>Input Parameters</b>				
	Min	Typ	Max	Units
Input Voltage Range	36	48/60	92	VDC
Input Current				
36 VDC, Full Load			5.5	A
92 VDC, Full Load			2.5	
Efficiency				
36VDC Full Load	93.0	94.5		%
48VDC Full Load	92.5	94.0		
60VDC Full Load	92.0	93.5		

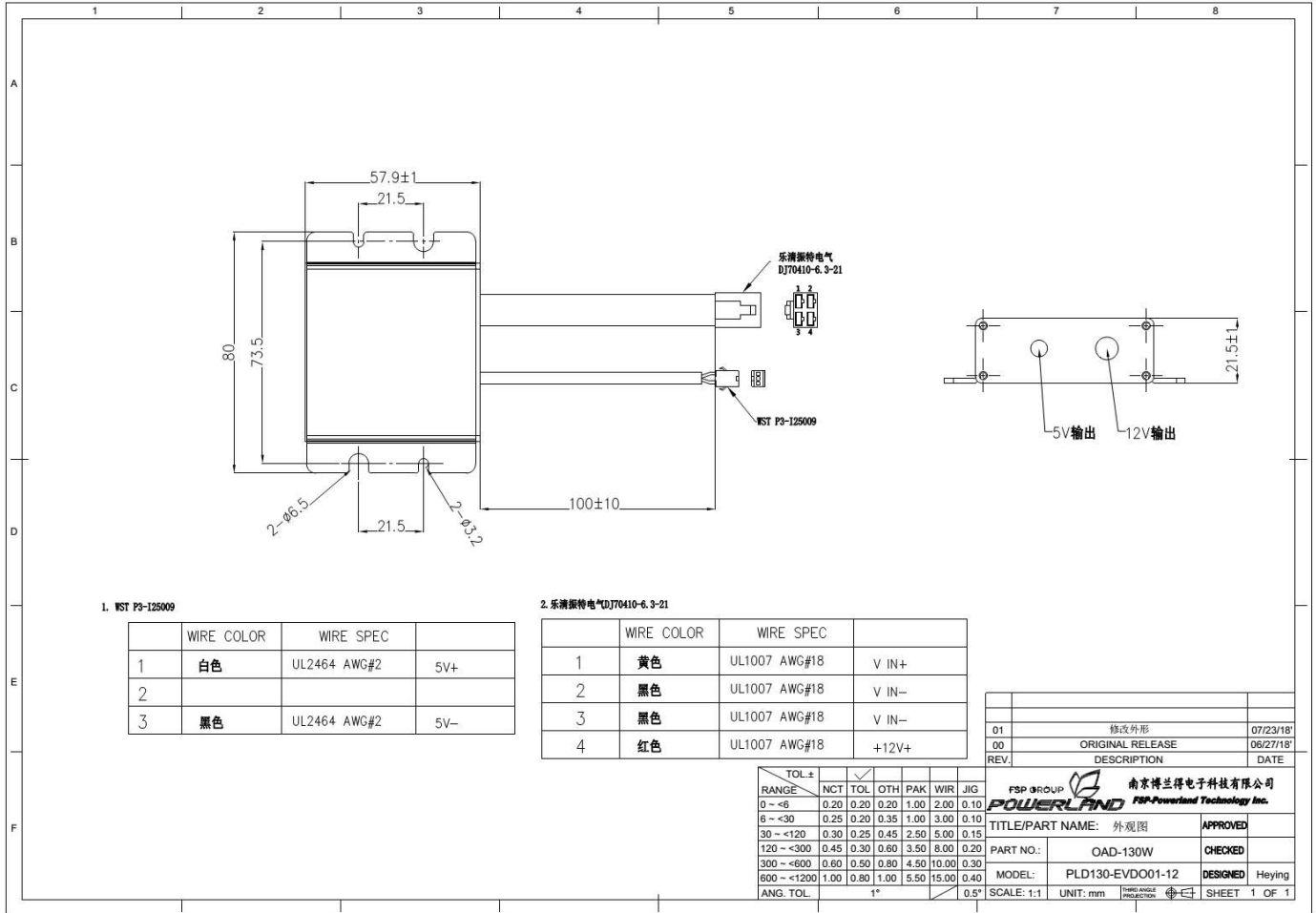
<b>Output Parameters: 106W (Continuous), 130W (Peak @ 5min.)</b>					
Output	Typical Load			Output Voltage Range	Output Voltage Ripple
Typ.	Min. Load	Full Load	Peak Load (5 min)		
Output: 12V	0A	8A	10A	11.5V~12.5V	720mVp-p
Output: 5V	0A	2A	2A	4.75V~5.15V	300mVp-p

<b>General Specifications</b>	
<b>Output Short Circuit Protection</b>	When its output is shorted, the power supply will enter hiccup mode, and will self-recover when the fault condition is removed.
<b>Isolation</b>	Non-isolation
<b>Operating Temperature</b>	-20~60°C (Derating above 40°C)
<b>Dimensions (LxWxH)</b>	59x58x21.5mm
<b>Weight</b>	0.17kg

Notes: Specification is subject to change without notice.

### Case Specifications:

Dimension: 85mm(L)\*58mm(W)\*21.5mm(H)



1. WST P3-125009

	WIRE COLOR	WIRE SPEC	
1	白色	UL2464 AWG#2	5V+
2			
3	黑色	UL2464 AWG#2	5V-

2. 乐清振特电气DJ70410-6.3-21

	WIRE COLOR	WIRE SPEC	
1	黄色	UL1007 AWG#18	V IN+
2	黑色	UL1007 AWG#18	V IN-
3	黑色	UL1007 AWG#18	V IN-
4	红色	UL1007 AWG#18	+12V+

TOL ±	✓				
RANGE	NCT	TOL	OTH	PAK	WIR
0 ~ <6	0.20	0.20	0.20	1.00	2.00
6 ~ <30	0.25	0.20	0.35	1.00	3.00
30 ~ <120	0.30	0.25	0.45	2.50	5.00
120 ~ <300	0.45	0.30	0.60	3.50	8.00
300 ~ <600	0.60	0.50	0.80	4.50	10.00
600 ~ <1200	1.00	0.80	1.00	5.50	15.00
ANG. TOL.		1°			0.5°

01	修改外形	07/23/18'
00	ORIGINAL RELEASE	06/27/18'
REV.	DESCRIPTION	DATE

FSP GROUP		南京博兰德电子科技有限公司	
<b>POWERLAND</b>		FSP-Powerland Technology Inc.	
TITLE/PART NAME: 外观图		APPROVED	
PART NO.:	OAD-130W	CHECKED	
MODEL:	PLD130-EVDO01-12	DESIGNED Heying	
SCALE: 1:1	UNIT: mm	SHEET 1 OF 1	