

Features:

- Wide Operating Temperature (-40°C to 80°C)
- Quiet, Fan less Operation
- 1+1 Current Share Capable
- Rugged, Conformal Coated PCB
- 3yr Warranty
- Universal Input
- High Reliability Design (MTBF: 200kh)
- OPP/SCP/OTP Protection Features
- Power Good (PG) Signal



Description:

The PLDA400S is a compact, enclosed AC-DC switching power supply that offers the option for current sharing. This 9.84" x 2.36" platform offers up to 400W of continuous power across a wide range of operating temperatures, all while maintaining a low emissions profile. All models meet FCC, EN55011, CISPR11 class B emission limits, and comply with UL, CE, IEC, and more.

Model Number	Output Voltage	Output Current	Line Regulation	Output Load Regulation	Ripple & Noise (Vp-p)	Average Efficiency @220 Vac
PLDA400S-10-P 5V		80.00A	±0.5%	±2%	200mV/150mV	88%

NOTES:

1. For operation at full rated power, mounting on a 400mm square aluminum plate is recommended to improve heat dissipation. Contact our office for more details.

2. R&N Measured at 20MHz BW with 0.1µF ceramic and 100µF electrolytic capacitors in parallel with DC output at load.

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	Specifications					
Input						
Input Voltage	90-264VAC					
Input Frequency	47-63Hz					
Input Current	5A Max.					
Inrush Current	<80A peak @ 220VAC, cold start					
Power Factor	>0.95 @110Vac; >0.93 @220VAC full load					
Efficiency	88% (220Vac input, full load)					
Leakage Current<250μA max. I/O Leakage (264Vac/63Hz)<3,500μA max. Earth Leakage (264Vac/63Hz)						
	Output					
Total Output Power	400W ¹ (See Derating Curves)					
Output Voltage	5VDC					
Output Current	80A Max. (See Derating Curves)					
Voltage Adjustability	-17%, +2%					
Set Point Accuracy	±2%					
Line Regulation	±0.5%					
Load Regulation	±2%					
Hold Up Time	8ms (220Vac, 80% load)					
Load Share Balance	>90%					
Minimum Load	No Minimum Load					
Ripple and Noise	<200mVpp2 from 0°C to 25°C <150mVpp2 from 25°C to 80°C					
	Protection Features					
Overpower Protection	106% - 137.5% Hiccup Mode					
Overtemperature Protection	105°C ±5°C (Case temp of primary switches)					
Short Circuit Protection	Auto Recovery					
	Environmental					
Operating Temperature	-40°C to 80°C (See Derating Curves)					
Storage Temperature	-40°C to +85°C					
Operating Humidity	20% - 90% non-condensing					
Storage Humidity	10% - 95% non-condensing					
General Specifications						
Dimensions	2.36"W x 9.84"L x 1.18"H					
Weight	1.5lbs					
MTBF	>200K hours per MIL-HDBK-217F at full load and 25°C ambient					





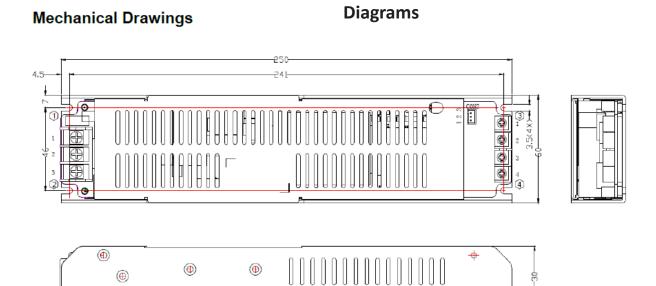
Specifications Continued					
Safety					
Approved to USA/Canada	UL/cUL60950-1 2nd Ed IEC60950-1:2005 2nd Ed.				
Approved to Europe	EN60950-1:2006				
Isolation	3000VAC input to output 1500VAC input to ground				
Isolation Resistance	10ΜΩ				
*Consult with TT Electronics for information on additional country sa	fety approvals				
E	мс				
EMC (IEC60601-1-2:2014)	FCC Class B Radiated & Conducted EN55022/55024 Class B Radiated & Conducted				
Harmonic Currents Voltage Flicker Electrostatic Discharge Radiated Immunity EFT/Burst Surge Immunity Conducted Immunity Magnetic Field Dips / Interruptions	IEC 61000-3-2: Class D IEC 61000-3-3 IEC 61000-4-2: 8kV Air, 4kV contact IEC 61000-4-3: 3V/m IEC 61000-4-4: +/-1kV IEC 61000-4-5: 2005 1kV differential IEC 61000-4-6: 3Vrms IEC 61000-4-8: 1A/m IEC 61000-4-11:				

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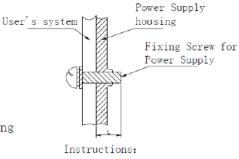






Mounting	Mounting	Mounting	Screw	I	Mounting
Position	Туре	Position Number	Туре	Lmax	Torque(max)
Bottom	Fixing by	<u></u>	1/0		
Mounting	screws	1-4	M3	4mm	6.5Kgf.cm (max)

Remark:For safety purpose, the screw length inside the PSU housing should follow above table. (Refer the drawing on right side.)



 Dimension unit: mm
The unmarked tolerance of overall dimension is ±1mm
Choose the best mounting type of the module

I/O Configuration

Input	Input			Output				Signal (AW2001-WV/3P)	
Terminal	I Function	Wire Gauge	Max Torque	Terminal	Function	Wire Gauge	Max Torque	Pin	Function
1	L	22-12AWG	73.5cNm	1	RTN	26-14AWG	73.5cNm	1	SHARE BUS
2	N	22-12AWG	73.5cNm	2	RTN	26-14AWG	73.5cNm	2	RTN
3	GND	22-12AWG	73.5cNm	3	DC+	26-14AWG	73.5cNm	3	POWER GOOD ³
			4	DC+	26-14AWG	73.5cNm	3) PG=3~3	.5V: Normal Operation	

) PG=3~3.5V: Normal Operation PG=0~0.7V: Fault

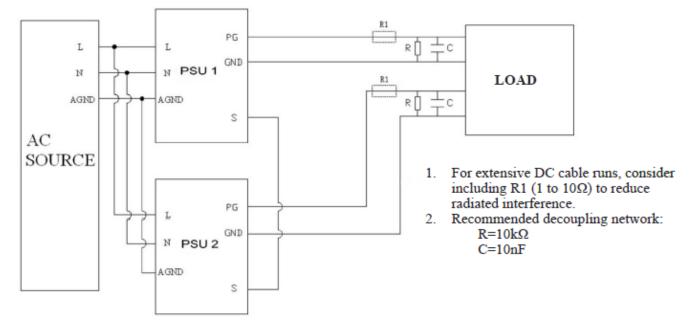
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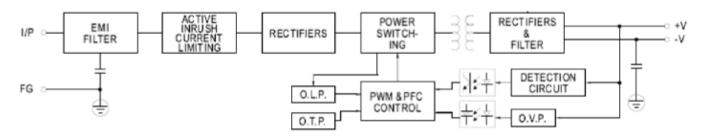




Current Share Arrangement

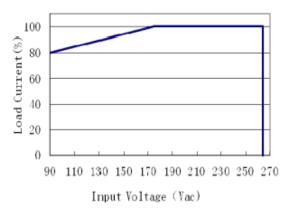


Block Diagram

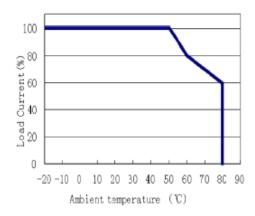


Derating Curves

Low-Line Derating



Thermal Derating



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