AC/DC Power

PNA275 Series
275W Power Supply

- 3” x 5” Footprint
- High Power Density: > 12W/Inch^3
- Up to 90% Efficiency
- Universal AC Input
- Active PFC (90-264VAC)
- Parallel Output Capability
- I^{2}C Interface
- Remote On/Off
- 5V/1A Standby Output
- 12V/1A Auxiliary Output
- Active Inrush Current Protection
- RoHS Compliant

Electrical Specifications

Input

Input Voltage	90-264VAC
Input Frequency	47-63 Hz
Input Current	3.5A @ 100VAC
Input Protection	5A Fuse
Inrush Current	13A @ 240VAC (Note 1)
Power Factor	Per EN61000-3-2
Leakage Current	700µA (Note 1)
Safety Isolation	3000VAC Input to output 1500VAC Input to ground
Power Factor	Meets or exceeds EN61000-3-2

Output

Total Output	275W
Output Voltage	See table
Hold Up Time	22mS minimum
Efficiency	Up to 90% (Note 1)
Minimum Load	No minimum load
Over/Under Shoot	10% maximum @ turn-on

Protection

Overvoltage	V1 (latches off)
Overpower	Auto recovery
Short Circuit	Auto recovery (all outputs)
Thermal Shutdown	Auto recovery against over temperature

Notes:

1. See product specification
2. Optional
3. All specifications typical at 25ºC unless noted.

Signals

Remote Sense	V1 & Return
Current Sharing	V1 using OR’ing MOFSET
Passive Redundancy	V2 & V3 may be wire OR’ed
Power Good Output	High-true CMOS logic & LED drive outputs
Remote Enable Input	Low-true enables V1 & V2
Standby Output	LED drive on when V1 & V2 disabled
LED Indicators	AC-On, Power Good
Fan Output #1	V2 on a 2-pin keyed connector
Fan Ouptut #2 (Note 1)	On above 45ºC ambient or hot transformer
Fan Tachometer (Note 2)	Reports fan speed via PMBus™
I²C Data/Clock (Note 2)	Provides PMBus™ control/status interface

Environmental & Operating

Operating Temperature	-25ºC to +50ºC
Temperature Derating	2.5%/ºC from +50ºC to +70ºC
Storage Temperature	-40ºC to +85ºC
Forced Air Cooling	10CFM minimum (Note 1)
Convection Cooling	150W
MTBF:	>200,000 hours calculated

Compliance

Safety Approvals

USA	UL60950-1/2007
Canada	CSA-C22.2 No. 60950-1-07
Europe	Directive 2006/95/EC (Low Voltage Safety) IEC60950-1-2005 (Second Edition) CB Report, CB Certificate, CE Mark
EMC	Directive 2004/106EC (EMC Directive EN61204-3-2001
Harmonic Currents	EN61000-3-2
Voltage Flicker	EN61000-3-3
Radiated Immunity	EN61000-4-3
EFT/Burst	EN61000-4-4
Surge Immunity	EN61000-4-5
Conducted Immunity	EN61000-4-6
Dips / Interruptions	EN61000-4-11

Your Partners in Power……..

Power Partners, Inc. | 43 Broad Street | Hudson, MA 01749
Tel: (978)567-9600 | Fax: (978)567-9601
Website: www.powerpartners-inc.com

Specifications subject to change.
PNA275: 04/07/2010

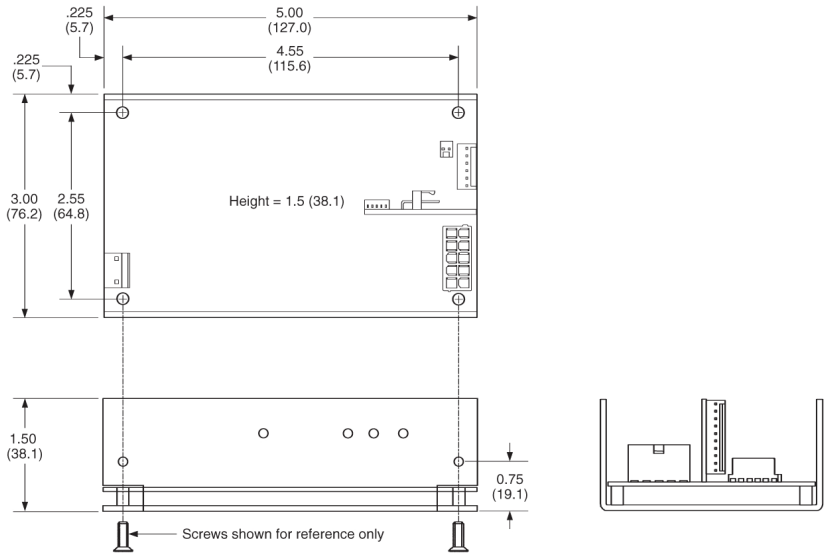
Power Partners

PNA275 Series
275W Power Supply

Models and Ratings Chart

Model	Output #	Voltage	Current	Regulation	Ripple & Noise (p-p)
PNA275-12 PNA275-12CS	V1	12	22.9A	3%	100mV
	V2	12	1A	5%	80mV
	V3	5sb	1A	5%	50mV
PNA275-15 PNA275-15CS	V1	15	18.3A	3%	150mV
	V2	12	1A	5%	80mV
	V3	5sb	1A	5%	50mV
PNA275-16 PNA275-16CS	V1	16	17.1A	3%	150mV
	V2	12	1A	5%	80mV
	V3	5sb	1A	5%	50mV
PNA275-24 PNA275-24CS	V1	24	11.5A	3%	200mV
	V2	12	1A	5%	80mV
	V3	5sb	1A	5%	50mV
PNA275-28 PNA280-75CS	V1	28	9.8A	3%	200mV
	V2	12	1A	5%	80mV
	V3	5sb	1A	5%	50mV
PNA275-48 PNA275-48CS	V1	48	5.7A	3%	200mV
	V2	12	1A	5%	80mV
	V3	5sb	1A	5%	50mV
PNA275-54 PNA275-54CS	V1	54	5.1A	3%	200mV
	V2	12	1A	5%	80mV
	V3	5sb	1A	5%	50mV
PNA275-56 PNA275-56CS	V1	56	4.9A	3%	200mV
	V2	12	1A	5%	80mV
	V3	5sb	1A	5%	50mV

Mechanical Outline



Power Partners, Inc. | 43 Broad Street | Hudson, MA 01749
Tel: (978)567-9600 | Fax: (978)567-9601
Website: www.powerpartners-inc.com

Specifications subject to change.
PNA275: 04/07/2010