



- 3" x 5.3" Footprint
- High Power Density: > 13W/Inch³
- Up to 90% Efficiency
- Universal AC Input
- Active PFC (90-264VAC)
- Parallel Output Capability
- Active Current Sharing
- 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	4.3A @ 100VAC
Input Protection	6.3A Fuse
Inrush Current	14A @ 240VAC (Note 1)
Power Factor	Per EN61000-3-2
Leakage Current	750µA @ 240VAC/60Hz (Note 1)
Safety Isolation	3000VAC Input to output 1500VAC Input to ground

Output

Total Output	280W
Output Voltage	See table
Hold Up Time	22mS minimum
Efficiency	Up to 90% (Note 1)
Minimum Load	No minimum load (Note 1)
Over/Under Shoot	10% maximum @ turn-on
Output Isolation	For POE (Note 1)

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. All specifications typical at 25°C unless noted.

Signals

Remote Sense	V1 & Return
Current Sharing	V1 using active circuitry
Passive Redundancy	V2 & V3 may be wire OR'd
Power Good Output	High-true CMOS logic
Remote Enable Input	Low-true enables V1, V2, V3

Environmental & Operating

Operating Temperature	-25°C to +50°C
Temperature Derating	2.5%/°C from +50°C to +70°C
Storage Temperature	-40°C to +85°C
Forced Air Cooling	10CFM minimum (Note 1)
Convection Cooling	See product specification (Note 1)
MTBF:	>160,000 hours calculated (Note 1)

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 2004/106/EC (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



Models and Ratings Chart

Model	Output #	Voltage	Current	Regulation	Ripple & Noise (p-p)
PNA280-12 PNA280-12CS	V1	12	23A	3%	120mV
	V2	12	5A	5%	120mV
	V3	12	1A	5%	120mV
	V4	5sb	1A	5%	50mV
PNA280-24 PNA280-24CS	V1	24	11.7A	3%	240mV
	V2	12	5A	5%	120mV
	V3	12	1A	5%	120mV
	V4	5sb	1A	5%	50mV
PNA280-48 PNA280-48CS	V1	48	5.8A	3%	480mV
	V2	12	5A	5%	120mV
	V3	12	1A	5%	120mV
	V4	5sb	1A	5%	50mV
PNA280-54 PNA280-54CS	V1	54	5.2A	3%	540mV
	V2	12	5A	5%	120mV
	V3	12	1A	5%	120mV
	V4	5sb	1A	5%	50mV
PNA280-56 PNA280-56CS	V1	56	5.0A	3%	560mV
	V2	12	5A	5%	120mV
	V3	12	1A	5%	120mV
	V4	5sb	1A	5%	50mV

Mechanical Outline

