

# HDX-750P

750 Watts (180-264Vac)

700 Watts (90-132Vac)

Dual High Current Outputs, Standard Models of 5Vdc/100Amps and 3.3Vdc/50Amps  
I<sup>2</sup>C OPTION FOR IPMI COMPATIBILITY



## FEATURES:

- Size: 1.6" x 5" x 11" in Size
- Low Profile - Only 1.6" high!
- N+1 Redundant and Hot Swap
- 8.5w/in<sup>3</sup> Power Density
- Meets EN55022 Level A / FCC Class A
- No Additional Cooling Required up to 50 °C
- Power Factor Corrected Input (90-264VAC)
- 'Zero' Wire Current Share
- Remote Sense On V1, V2, V3 Outputs
- Integral LED Status Indicators
- Greater than 90,000 Hrs MTBF



	OUTPUT VOLTAGE (VDC)	OUTPUT AMPERES (MAX)	OUTPUT POWER (WATTS)
+V1	2 to 48	100	750
+V2	1.5 to 48	50	480
+V3	5 to 24	12/15pk	240
- V4	0.8 to 15	5	72
+V5	+5V Standby Output	0.25A	

\*V1 & V2 Combined current must not exceed 140A.

# HDX-750P SERIES - 750 WATT COMPACT SIZE

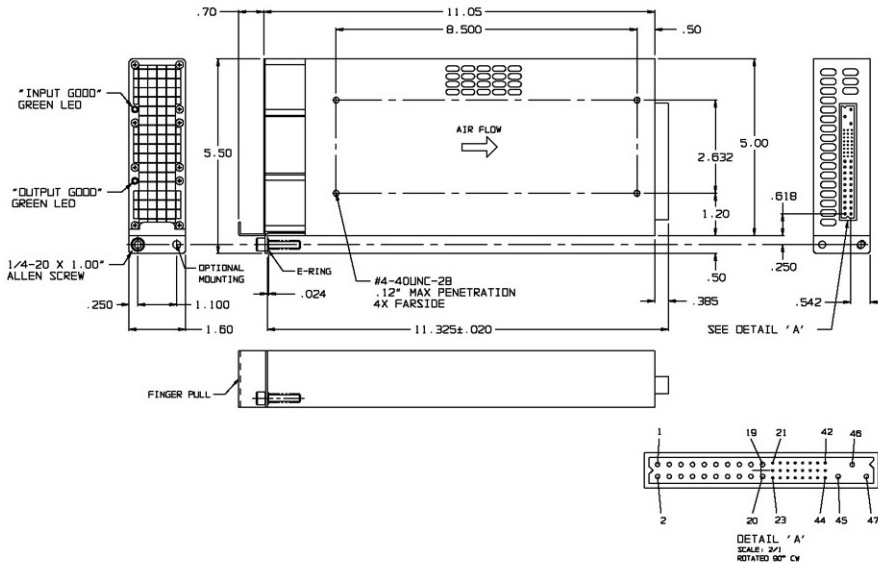


TABLE 'A' WITH I2C OPTION		TABLE 'B' WITHOUT I2C OPTION	
POSTTRONIC P/N PC1H47M400A1		POSTTRONIC P/N PC1H47M400A1	
PIN NO.	SIGNAL	PIN NO.	SIGNAL
1	+V1 OUT	1	+V1 OUT
2	+V1 OUT	2	+V1 OUT
3	+V1 OUT	3	+V1 OUT
4	+V1 OUT	4	+V1 OUT
5	+V1 OUT	5	+V1 OUT
6	+V1 OUT	6	+V1 OUT
7	V1 & V2 RTN	7	V1 & V2 RTN
8	V1 & V2 RTN	8	V1 & V2 RTN
9	V1 & V2 RTN	9	V1 & V2 RTN
10	V1 & V2 RTN	10	V1 & V2 RTN
11	V1 & V2 RTN	11	V1 & V2 RTN
12	V1 & V2 RTN	12	V1 & V2 RTN
13	V1 & V2 RTN	13	V1 & V2 RTN
14	+V2 OUT	14	+V2 OUT
15	+V2 OUT	15	+V2 OUT
16	+V2 OUT	16	+V2 OUT
17	+V2 OUT	17	+V2 OUT
18	+V2 OUT	18	+V2 OUT
19	V3 RTN	19	V3 RTN
20	+V3 OUT	20	+V3 OUT
21	V4 OUT	21	V4 OUT
22	V4 RTN	22	V4 RTN
23	V4 OUT	23	V4 OUT
24	V4 RTN	24	V4 RTN
25	GND	25	SPARE
26	+SVSB RTN	26	+SVSB RTN
27	ENABLE	27	ENABLE
28	DA1	28	SPARE
29	+SVSB	29	+SVSB
30	+V1 SENSE	30	+V1 SENSE
31	-V1 SENSE	31	-V1 SENSE
32	V4 RTN	32	V4 RTN
33	+V2 SENSE	33	+V2 SENSE
34	-V2 SENSE	34	-V2 SENSE
35	V4 OUT	35	V4 OUT
36	+V3 SENSE	36	+V3 SENSE
37	-V3 SENSE	37	-V3 SENSE
38	SDA	38	OUTPUT POWER GOOD
39	INHIBIT	39	INHIBIT
40	SCLK	40	INVERTEMP WARNING
41	N/C	41	N/C
42	INPUT POWER FAIL	42	INPUT POWER FAIL
43	INTERRUPT	43	SPARE
44	N/C	44	N/C
45	CHASSIS GROUND	45	CHASSIS GROUND
46	AC LINE	46	AC LINE
47	AC NEUTRAL	47	AC NEUTRAL

<b>Nominal Input Voltage</b>	120-240 VAC, 8A max.	<b>Current Limiting</b>	V1,V2,V3 Shutdown overload -recycle AC to reset. V4 Foldback protected-auto recovery.
<b>Frequency</b>	47-63 Hz , 400Hz. available.	<b>Paralleling</b>	Two or more supplies can be operated in parallel and will share 5V/3.3V/12V current to within ±10% of each other.
<b>Operational Input Voltage Range</b>	90-132 VAC, 700 Watts Output 132-264 VAC, 750 Watts Output Power Factor 0.99 Typical at Full Load. Meets EN 61000-3-2.	<b>Redundant</b>	Full power N+1 redundant with integral Oring Diodes.
<b>Inrush Current</b>	Less than 4 msec. 40 amperes @ 115 VAC or 80 amperes @ 264 VAC.	<b>Remote Sense</b>	Compensates for up to 0.5V total distribution voltage drop on the V1, V2 and V3 outputs.
<b>Brownout Protection:</b>	Holds Regulation to 85 Vac.	<b>INHIBIT</b>	Open to Run, Contact closure to return , turns off all outputs.
<b>Fusing</b>	16 Ampere, 250 VAC, Internal ceramic body fuse.	<b>ENABLE</b>	Closed to run. Contact closure to return, turns on all outputs.
<b>Hold up time</b>	20msec minimum after loss of AC Input at full load and any input.	<b>Input POWER FAIL</b>	Normal logic '0' TTL signal which goes high whenever the AC line voltage ceases. Provides 4msec warning before outputs go out of regulation.
<b>Efficiency</b>	72 - 76% typical, line dependent.	<b>Indicators</b>	Green LED indicating Input Good, Green LED indicating output Good.
<b>Turn on time</b>	1 sec max. from power up. All output voltages come up within 10msec of each other.	<b>Output Power Good</b>	Provides logic High signal when V1, V2 are within 90% of their ratings.
<b>Line and Load Regulation</b>	±2% over AC input range and 0 to 100% load change.	<b>Over Temp Warning</b>	Provides a logic High signal at least 1 sec before supply shuts down.
<b>Minimum Load</b>	A 2A minimum load required on V1.	<b>Operating Temperature</b>	-20°C to 50°C operating temperature. 50°C to 75°C, derate 2%/°C. (Power varies with AC input, consult factory for rating curves).
<b>Ripple &amp; Noise</b>	Through 20MHz 1% max. or 100mv whichever is greater for all outputs, peak to peak, with coaxial probe and 0.1uF/10uF capacitors at the connector.	<b>Stability</b>	All outputs ±0.5% for 8 hrs. after 30 minute warm-up. All outputs ±1% during 30 minute warm-up.
<b>Transient Response</b>	Output maximum excursion of ± 4% for 25% load step. Recovery less than 300 µsec.	<b>Humidity</b>	Up to 95% non-condensing.
<b>Overshoot/Undershoot</b>	No turn-on or turn-off overshoot.	<b>Storage Temperature</b>	-40°C to 85°C.
<b>Output Isolation</b>	Isolated from chassis ground, 50Vdc.	<b>Connector</b>	Positronic Part No. PC1H47M400A1
<b>Input/Output Isolation</b>	2200 VDC from input to both chassis/outputs. SELV construction.	<b>Size</b>	1.6" x 5" x 11" <b>Weight:</b> 4 lbs.
<b>Reverse Voltage</b>	Protected against reverse voltage to supply current rating.	<b>EMC</b>	Meets EN55022 Level A / FCC Class A conducted.
<b>Overvoltage Protection</b>	Shutdown at 130% of nominal Vout (V1,V2, V3). V4 failsafe design. Recycle input power to reset.	<b>Safety</b>	UL 60950 / CSA C22.2 No. 60950, EN60950.
<b>Overtemperature Protection</b>	Unit shuts down if overheated. Recycle AC to reset.		
<b>Leakage Current</b>	1.0mA max at 240Vac.		

SERIES BREAKDOWN: HDX-750X1-P

where X1= S for Single output, D for Dual output, T for Triple output or Q for Quad output

5-13-08

REV C