HDX-600P

HOT SWAP - 600 Watts - 1U HIGH

One to Five Outputs - Power Factor Corrected 90-264Vac

Dual High Current Outputs, Standard Models of 5Vdc/80Amps and 3.3Vdc/40Amps

KEY FEATURES:

- 600 Watts in a 1.60" x 5.00" x 11.00" Modular Design
- Wide Range AC Input (90-264Vac) with Active Power Factor Correction
- Hot Swap N+1 Redundant with Internal Oring Diodes
- Custom Input/Output Configurations Available
- Meets EN55022 Level A / FCC Class A
- "Zero" Wire Current Share
- Greater than 150,000 Hrs MTBF
- Integral LED Status Indicators
- Ruggedized Mechanical Design
- One Year Warranty
- Proudly Made in U.S.A.

	OUTPUT VOLTAGE (Vdc)	OUTPUT AMPERES (MAX)	OUTPUT POWER (WATTS)
+V1	2 to 48	80	600
+V2	1.5 to 48	40	480
+V3	5 to 24	12/15pk	240
- V4	5 to 24	4	72
+V5	+5V stby	0.25A	Optional

*V1 & V3 Combined current not to exceed 80A.

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Regulated Power

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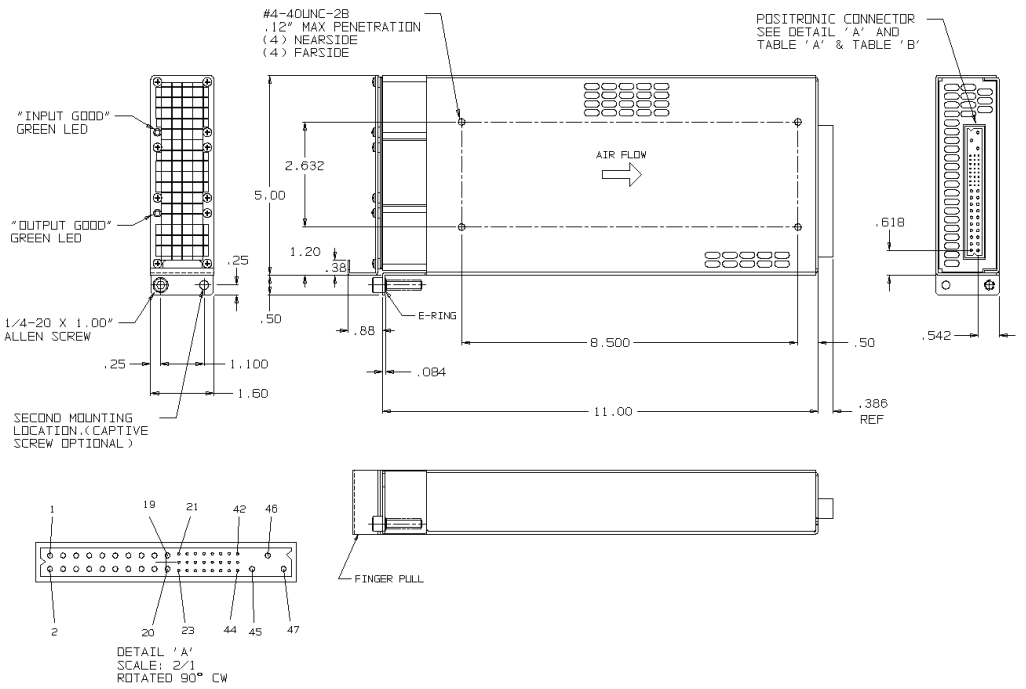

TABLE 'A' WITH I²C OPTION	
POSITRONIC P/N PCIH47M400A1	
PIN NO.	SIGNAL
1	+V1 OUT
2	+V1 OUT
3	+V1 OUT
4	+V1 OUT
5	+V1 OUT
6	+V1 OUT
7	V1 & V2 RTN
8	V1 & V2 RTN
9	V1 & V2 RTN
10	V1 & V2 RTN
11	V1 & V2 RTN
12	V1 & V2 RTN
13	V1 & V2 RTN
14	+V2 OUT
15	+V2 OUT
16	+V2 OUT
17	+V2 OUT
18	+V2 OUT
19	V3 RTN
20	+V3 OUT
21	V4 OUT
22	SIGNAL GROUND
23	N/C
24	V4 RTN
25	GAD
26	N/C
27	ENABLE
28	GA1
29	N/C
30	+V1 SENSE
31	-V1 SENSE
32	N/C
33	+V2 SENSE
34	-V2 SENSE
35	N/C
36	+V3 SENSE
37	-V3 SENSE
38	SDA
39	INHIBIT
40	SCLK
41	N/C
42	INPUT POWER FAIL
43	INTERRUPT
44	N/C
45	CHASSIS GROUND
46	AC LINE
47	AC NEUTRAL

TABLE 'B' WITHOUT I²C OPTION	
POSITRONIC P/N PCIH47M400A1	
PIN NO.	SIGNAL
1	+V1 OUT
2	+V1 OUT
3	+V1 OUT
4	+V1 OUT
5	+V1 OUT
6	+V1 OUT
7	V1 & V2 RTN
8	V1 & V2 RTN
9	V1 & V2 RTN
10	V1 & V2 RTN
11	V1 & V2 RTN
12	V1 & V2 RTN
13	V1 & V2 RTN
14	+V2 OUT
15	+V2 OUT
16	+V2 OUT
17	+V2 OUT
18	+V2 OUT
19	V3 RTN
20	+V3 OUT
21	V4 OUT
22	SIGNAL GROUND
23	N/C
24	V4 RTN
25	SPARE
26	N/C
27	ENABLE
28	SPARE
29	N/C
30	+V1 SENSE
31	-V1 SENSE
32	N/C
33	+V2 SENSE
34	-V2 SENSE
35	N/C
36	+V3 SENSE
37	-V3 SENSE
38	OUTPUT POWER GOOD
39	INHIBIT
40	OVERTEMP WARNING
41	N/C
42	INPUT POWER FAIL
43	SPARE
44	N/C
45	CHASSIS GROUND
46	AC LINE
47	AC NEUTRAL

Nominal Input Voltage
Frequency
120-240 Vac, 7A max.
47-63 Hz , 400Hz. available.

Operational Input Voltage Range
90-264 Vac
Power Factor 0.99 Typical at Full Load.
Meets EN 61000-3-2.

Inrush Current
Less than 4 msec. 40 amperes @ 115 Vac
or 80 amperes @ 264 Vac.

Brownout Protection:
Holds Regulation to 85 Vac.

Fusing
16 Ampere, 250 Vac, Internal ceramic
body fuse.

Hold up time
20msec minimum after loss of AC Input at full load
and any input.

Efficiency
70% typical

Turn on time
1 sec max. from power up. All output voltages come
up within 10msec of each other.

Line and Load Regulation
±2% over AC input range and
0 to 100% load change.

Minimum Load
A 5% minimum load required on V1.

Ripple & Noise
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.

Transient Response
Output maximum excursion of ± 4% for 25% load
step. Recovery less than 300 µsec.

Overshoot/Undershoot
No turn-on or turn-off overshoot.

Output Isolation
Isolated from chassis ground, 50Vdc.

Input/Output Isolation
2200 VDC from input to both chassis/outputs.
SELV construction.

Reverse Voltage
Protected against reverse voltage to supply
current rating.

Overvoltage Protection
Shutdown at 130% of nominal Vout (V1,V2, V3).
V4 failsafe design. Recycle input power to reset.

Overtemperature Protection
Unit shuts down if overheated. Recycle AC to reset.

Leakage Current
1.0mA max at 240Vac.

Current Limiting
V1, V2, V3 shutdown overload -recycle AC to reset.
V4 foldback protected -auto recovery.

Paralleling
Two or more supplies can be operated in parallel and
will share 5V/3.3V/12V current to within ±10% of each
other.

Redundant
Full power N+1 redundant with integral Oring Diodes.

Remote Sense
Compensates for up to 0.5V total distribution voltage
drop on the +5V, +3.3V and +12V outputs.

INHIBIT
Open to Run, Contact closure to return , turns off
all outputs.

ENABLE
Closed to run. Contact closure to return, turns on
all outputs.

Input POWER FAIL
Normal logic '0' TTL signal which goes high whenever
the AC line voltage ceases. Provides 4msec warning
before outputs go out of regulation.

Indicators
Green LED indicating Input Good, Green LED indicating
output Good.

Output Power Good
Provides logic High signal when V1, V2 are within 90%
of their ratings.

Over Temp Warning
Provides a logic High signal at least 1 sec before supply
shuts down.

Operating Temperature
-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).

Stability
All outputs ±0.5% for 8 hrs. after 30 minute warm-up.
All outputs ±1% during 30 minute warm-up.

Humidity
Up to 95% non-condensing.

Storage Temperature
-40°C to 85°C.

Connector
Positronic Part No. PCIH47M400A1

Size
1.60" x 5.00" x 11.00" **Weight:** 4 lbs.

EMC
Meets EN55022 Level A / FCC Class A conducted.

Safety
Designed to meet: UL 60950 / CSA C22.2 No. 60950,
EN60950.

Common Options
Conformal coating (Acrylic or Paylene), ruggedization, in-
creased energy storage & special output configurations.

SERIES BREAKDOWN: HDX-600X1-P

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

REV: W