

HDX-600-DC

HOT SWAP - 600 Watts - 1U HIGH

One to Five Outputs - 36 to 75Vdc Input

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



KEY FEATURES:

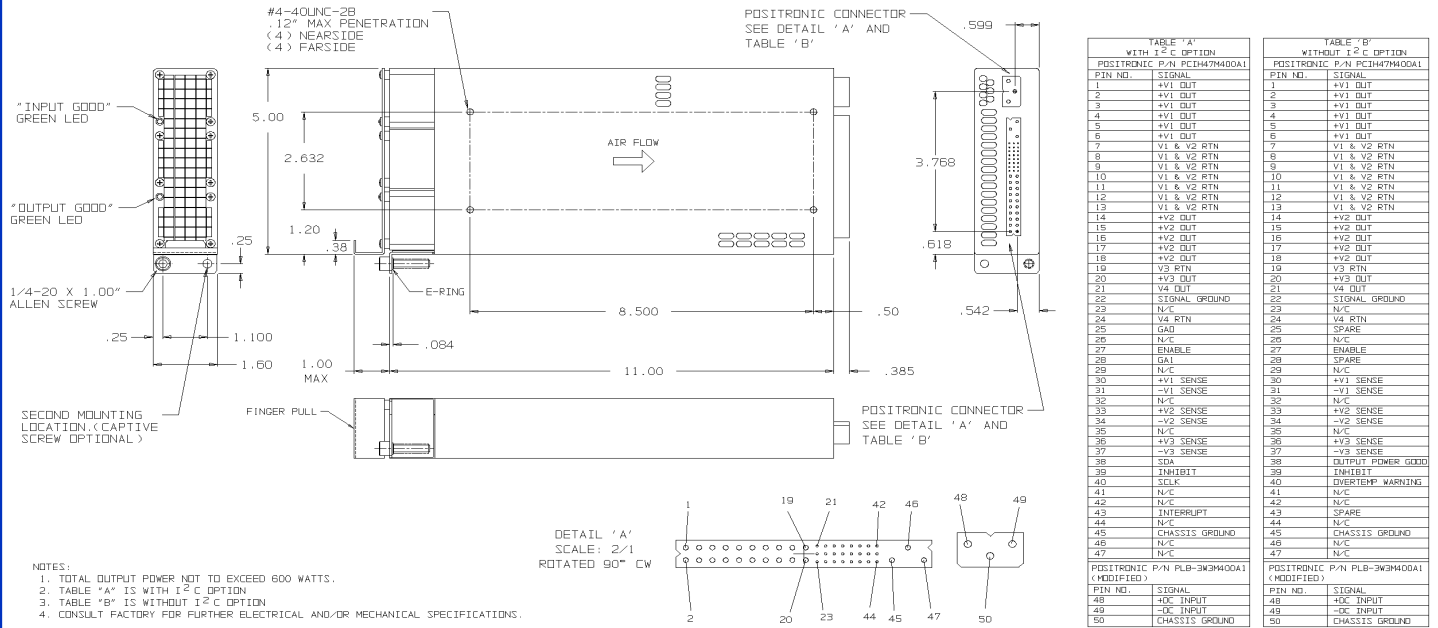
- 600 Watts in a 1.60" x 5.00" x 11.00" Modular Design
- Wide Range DC Input (36-75Vdc)
- Hot Swap N+1 Redundant with Internal Oring Diodes
- Custom Input/Output Configurations Available
- Optional I²C Interface Bus
- Meets EN55022 Level A / FCC Class A
- "Zero" Wire Current Share
- Greater than 150,000 Hrs MTBF
- Integral LED Status Indicators
- Ruggedized Mechanical Design
- One Year Warranty
- Proudly Made in U.S.A.



	<u>OUTPUT VOLTAGE (Vdc)</u>	<u>OUTPUT AMPERES (MAX)</u>	<u>OUTPUT POWER (WATTS)</u>
+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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- NOTES:
 1. TOTAL OUTPUT POWER NOT TO EXCEED 600 WATTS.
 2. TABLE "A" IS WITH I²C OPTION
 3. TABLE "B" IS WITHOUT I²C OPTION
 4. CONSULT FACTORY FOR FURTHER ELECTRICAL AND/OR MECHANICAL SPECIFICATIONS.

Nominal Input Voltage -48 Vdc, 20A max.

Operational Input Voltage Range 36-75 Vdc

Inrush Current Less than 5 msec. 45 amperes @ -48 Vdc

Fusing 30 Ampere, 125 Vdc, Internal ceramic body fuse.

Hold up time 1msec minimum after loss of DC 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 DC input range and 0 to 100% load change.

Minimum Load A 2.5% 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 1500 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 DC to reset.

Current Limiting V1, V2, V3 shutdown overload protected. V4 has foldback overload protection. 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.

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).

Cooling Integral fans.

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 and Positronic Part No. PLB-3W3M400A1

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 & special output configurations. Consult factory.

SERIES BREAKDOWN: HDX-600X1-DC
 where X1= S for Single output, D for Dual output, T for Triple output or Q for Quad output