HDX-410-DC

HOT SWAP - 400 WATTS - 1U HIGH

18-40 VDC INPUT

I²C OPTION FOR IPMI COMPATIBILITY

FEATURES:

Size: 1.6" x 5" x 10" in Size
Low Profile - Only 1.6" high!
N+1 Redundant and Hot Swap
5w/in³ Power Density
Meets FCC Class A
No Additional Cooling Required up to 50 °C
Wide Range Input (18-40VDC), Transients to 75VDC for 2 Secs.
'Zero' Wire Current Share
Remote Sense
No Minimum Load Required
Includes Standby Output 5V/0.25A
Integral LED Status Indicators
Greater than 90,000 Hrs MTBF (500,000 Hrs in Redundancy)

Standard Configurations Available :

	OUTPUT VOLTAGE (VDC)	**OUTPUT AMPERES** (MAX)	**OUTPUT POWER** (WATTS)
+V1	**48Vdc**	**8.4**	**400**
+V1	**24Vdc**	**16.7**	**400**
+V1	**12Vdc**	**33.3**	**400**

SWITCHING POWER, INC.
Regulated D.C. Power

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VISIT US ON THE WEB:
http://www.switchpwr.com

HDX-410-DC SERIES - 400 WATT COMPACT SIZE

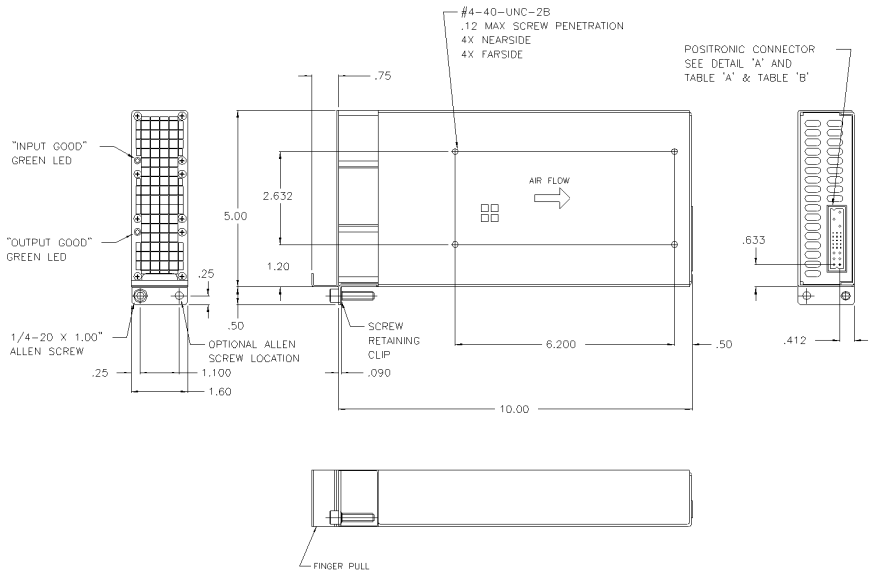
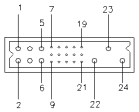


TABLE 'A' WITH I2C OPTION POSITRONIC P/N PCIB24W9M400A1 MATES WITH PCIB24W9F400A1	
PIN #	DESCRIPTION
1	+VOUT
2	+VOUT
3	+VOUT
4	RTN
5	RTN
6	RTN
7	ENABLE
8	+SENSE
9	-SENSE
10	INHIBIT
11	SDA
12	SCLK
13	MODULE PRESENT
14	GA1
15	N/C
16	N/C
17	GA0
18	N/C
19	GA2
20	+5V SB
21	+5V SB RTN
22	CHASSIS GROUND
23	-24VDC
24	-24VDC RTN

TABLE 'B' WITHOUT I2C OPTION POSITRONIC P/N PCIB24W9M400A1 MATES WITH PCIB24W9F400A1	
PIN #	DESCRIPTION
1	+VOUT
2	+VOUT
3	+VOUT
4	RTN
5	RTN
6	RTN
7	ENABLE
8	+SENSE
9	-SENSE
10	INHIBIT
11	N/C
12	N/C
13	MODULE PRESENT
14	DC POWER GOOD
15	N/C
16	N/C
17	OVERTEMP WARNING
18	N/C
19	V1 CURRENT MONITOR
20	+5V SB
21	+5V SB RTN
22	CHASSIS GROUND
23	-24VDC
24	-24VDC RTN



DETAIL 'A'
SCALE: 2/1
ROTATED 90° CW

Nominal Input Voltage	24VDC, 25A max.
Operational Input Voltage Range	18-40 VDC
Inrush Current	Less than 5 msec. 45 amperes @ -48VDC.
Fusing	40 Ampere, 125 VDC.
Hold up time	1msec minimum after loss of DC Input at full load and any input.
Efficiency	75% typical
Turn on time	1 sec max. from power up.
Line and Load Regulation	±2% over DC input range and 0 to 100% load change.
Minimum Load	No minimum load required.
Ripple & Noise	Through 20MHz 0.5% max. 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	Clamp at 130% of nominal Vout.
Overtemperature Protection	Unit shuts down if overheated. Recycle DC to reset.
Current Limiting	V1 short circuit protected with foldback protection. 5VSB Foldback.

Paralleling	Two or more supplies can be operated in parallel and will share 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.
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 Low signal when V1 is within 90% of it's rating.
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.
Stability	All outputs ±0.2% for 8 hrs. after 30 minute warm-up. All outputs ±0.5% during 30 minute warm-up.
Humidity	Up to 95% non-condensing.
Storage Temperature	-40°C to 85°C.
Connector	Positronic Part No. PCIB24W9M400A1
Size	1.6" x 5" x 10" **Weight:** 4 lbs.
EMC	Meets FCC Class A conducted. External filter required for EN55022 Level A.
Safety	Meets UL 60950 / CSA C22.2 No. 60950, EN60950.

Standby Output: +5V/0.25A, First On, Last Off. Remains ON during all fault conditions.

REV: -