

# DEC 830

## HOT SWAP - 1000 WATTS

### With Or'ing Diodes



Rear View showing  
Elcon Connector



#### FEATURES:

- 5" x 6" x 13" in Size
- N+1 Redundant and Hot Swap (Elcon Double Drawer Connector)
- Fast and Easy Installation
- Meets EN55022 Level A / FCC Class A
- No Additional Cooling Required up to 50 °C
- Power Factor Corrected Input (90-264VAC)
- Active Current Share Capability on V1, V2 Outputs
- LED'S Included Indicates Power Supply Status (POK, +5Vaux)
- Greater than 150,000 Hrs MTBF (500,000 Hrs in Redundancy)

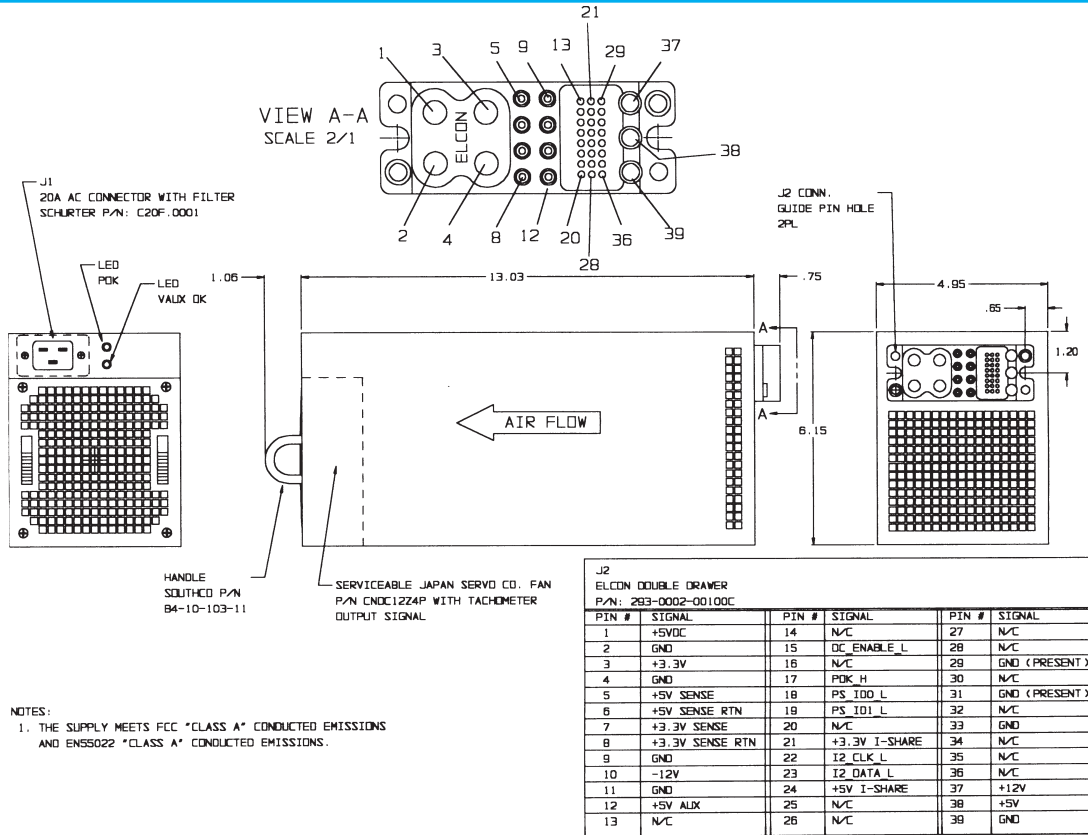


	OUTPUT VOLTAGE (VDC)	OUTPUT AMPERS (MAX)	OUTPUT POWER (WATTS)
V1	5	105	525
V2	3.3	110	363
V3	12	12 (15Apk)	144
V4	-12	1	12
V5	+5VSB	2.5	12.5

3601 VETERANS HIGHWAY  
RONKONKOMA, NEW YORK 11779  
TEL (516) 981-7231 FAX (516) 981-7266

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<http://www.switchpwr.com>

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<b>Nominal Input Voltage</b>	115-240 VAC.
<b>Frequency</b>	47-63 Hz , 400 Hz
<b>Operational Input Voltage Range</b>	90-264 VAC
<b>Inrush Current</b>	Less than 4 msec 75 amperes @ 115 VAC or 150 amperes @ 230 VAC.
<b>Fusing</b>	20 Ampere, 250 VAC, Internal ceramic body fuse.
<b>Hold up time</b>	20msec minimum after loss of AC Input at full load and nominal input
<b>Efficiency</b>	65% typical with OR diodes
<b>Turn on time</b>	Less than 1 sec.
<b>Load Regulation</b>	1% for 10% to 100% load change on all outputs. 5% min load required on V1, V2 to maintain regulation on V3-V4 outputs.
<b>Line Regulation</b>	0.1% over operating line range
<b>Ripple &amp; Noise</b>	1% PARD or 100mv which ever is greater. 20MHz bandwidth.
<b>Transient Response</b>	All Outputs maximum excursion of ± 5% for 25% load step. Recovery less than 500 µsec.
<b>Short Circuit and Overload Protection</b>	All Outputs protected from short circuit and overload. Shut down until AC recycled.
<b>Overshoot</b>	No turn-on or turn-off overshoot.
<b>Overvoltage Protection</b>	All outputs excluding +5Vaux. Unit shuts down.
<b>Overtemperature Protection</b>	Unit shuts down if overheated except +5Vaux. AC must be recycled to recover.

<b>Input/Output Isolation</b>	4242 VDC, SELV construction.
<b>Remote Sense (V1, V2 outputs)</b>	Up to 0.5 volts total in load.
<b>I-Share (+5V, 3.3V)</b>	Single wire for active share programming.
<b>DC_ENABLE_L</b>	Active Low signal that turns on all outputs except +5Vaux.
<b>5VAux</b>	Standby voltage that may be used to power circuits that require power during the powered-down state of the power rails. First-On, Last-Off.
<b>POK_H</b>	Power Good signal asserted high when +5V and +3.3V outputs are 95% of nominal. Timing characteristics meet ATX spec.
<b>°C</b>	°C Bus, For power supply identification, monitoring and EPROM Format for storing power supply data. Consult factory for additional information.
<b>Operating Temperature</b>	-20°C to 50°C full output 50°C to 75°C, derate 2% /°C
<b>Stability</b>	0.5% for 8 hrs. after 1 hour warm-up.
<b>Humidity</b>	Up to 95% non-condensing.
<b>EMI</b>	Meets FCC Class A and EN 55022 Level A
<b>Size</b>	5"x6"x13" <b>Weight:</b> 17 lbs.