

GNX-1000

LOW PROFILE -1000 WATTS

ONE TO FOUR OUTPUTS - POWER FACTOR CORRECTED 90-264 VAC
40 AMP CAPABILITY ON V2 - 200 AMPS ON V1



FEATURES:

- Low Profile 2.5" x 8" x 12" in Size
- One to Four outputs
- All Outputs Independent
- Meets EN55022 Level A / FCC Class A
- No Additional Cooling Required up to 50 °C
- Power Factor Corrected Input (90-264VAC)
- Remote Sense On V1, V2 Outputs
- Greater than 150,000 Hrs MTBF
- Zero Wire Current Share on V1 & V2 Outputs

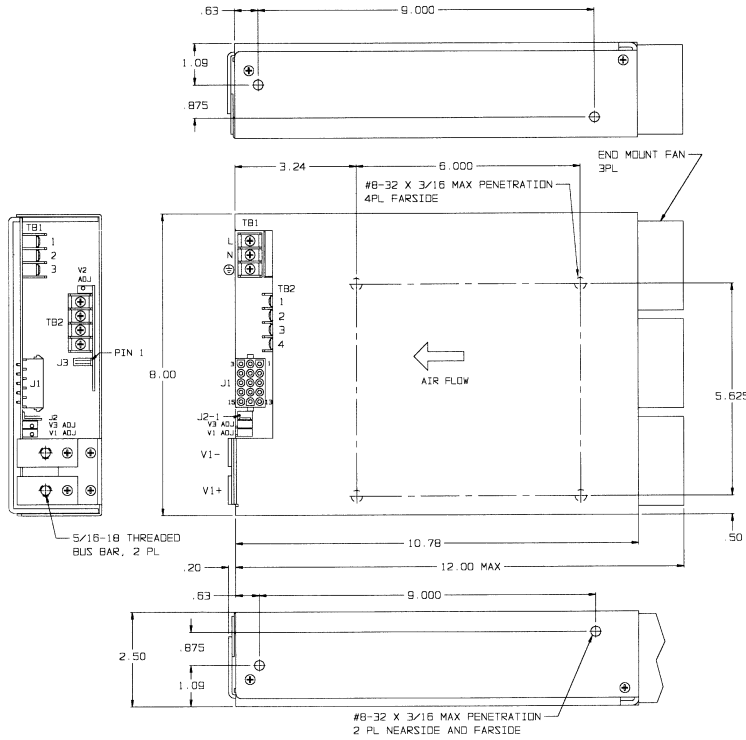


	OUTPUT VOLTAGE (VDC)	OUTPUT AMPERS (MAX)	OUTPUT POWER (WATTS)
V1	1.8 to 48	150 / 200*	1000
V2	1.8 to 24	40	200
V3	5 to 24	20/30pk	240
V4	3.3 to 24	10	120

* 200A on single output version.

GNX-1000 SERIES

1000 WATT COMPACT SIZE



AC INPUT (90-264 VAC CONTINUOUS RANGE)			
FUNCTION	115VAC	230 VAC	CONNECTOR
TB1-1	LINE	LINE 1	BARRIER STRIP
TB1-2	NEUTRAL	LINE 2	#6-32 SCREWS
TB1-3	SAFETY GROUND	SAFETY GROUND	3/8" CENTERS

DC OUTPUTS			
FUNCTION	DESCRIPTION	LOCATION	CONNECTOR
V1	+5V/1.00A	MAIN OUTPUT	5/16-18 THREADED BUS BARS
V2	+3.3V/40A	TB2-1,2	AMP MATE-N-LDK #350850-1
V3	+3.3V RTN	TB2-3,4	MATES WITH #350730-1 WITH PINS
V4	+12V/20A-30A PK	J1-12, 13, 14, 15	
	+12V RTN	J1-7, 8, 9, 10, 11	
	+12V/10A FLOATING	J1-1, 2, 3	
	-12V/10A FLOATING	J1-4, 5, 6	

STATUS AND CONTROL			
FUNCTION	LOCATION	NOTES	CONNECTOR
REMOTE SENSE	J2-1	OUTPUT #1 SENSE	MOLEX #22-04-1041
FALT	J2-2	OUTPUT #1 SENSE RTN	MATES WITH MOLEX #22-01-1044
INHIBIT	J2-3	REFERENCE TO COMMON	
REMOTE SENSE	J3-1	OUTPUT #2 SENSE	MOLEX #22-04-1021
	J3-2	OUTPUT #2 SENSE RTN	MATES WITH MOLEX #22-01-1024

- NOTES:
- INHIBIT IS OPEN TO RUN. CONTACT CLOSURE TO THE NEGATIVE SENSE LINE OR A TTL LEVEL "0" TURNS OFF DC OUTPUTS.
 - FAIL SIGNAL IS A NORMAL LOGIC "1" TTL SIGNAL WHICH GOES LOW UNDER ANY OF THE FOLLOWING CONDITIONS:
 - WHENEVER THE +5V OR THE +3.3V OUTPUT FAILS.
 - WHENEVER THERE IS AN OVER TEMPERATURE CONDITION.
 - WHENEVER THERE IS AN OVER VOLTAGE SHUT DOWN.
 - WHENEVER THERE IS AN AC INPUT FAILURE (5msec WARNING BEFORE OUTPUTS GO OUT OF REGULATION).
 - 90-264VAC INPUT POWER FACTOR CORRECTED.
 - TOTAL OUTPUT POWER NOT TO EXCEED 1000 WATTS.

Nominal Input Voltage	115-240 VAC, 15A max.	Overvoltage Protection	Shutdown at 130% of nominal Vout V1, V2, V3. V4 failsafe design. Recycle input power to reset.
Frequency	47-63 Hz, 400Hz. available.	Overtemperature Protection	Unit shuts down if overheated. Recycle AC to reset.
Operational Input Voltage Range	90-264 VAC Power Factor 0.99 Typical at Full Load. Meets EN 61000-3-2.	Leakage Current	1.5mA max at 240Vac.
Inrush Current	Less than 4 msec. 30 amperes @ 115 VAC or 60 amperes @ 264 VAC.	Current Limiting	All outputs short circuit protected with foldback protection. Automatic recovery upon removal of the short.
Brownout Protection:	Holds Regulation to 85 Vac.	Paralleling	Two or more supplies can be operated in parallel and will share V1/V2 current to within 10% of each other.
Fusing	20 Ampere, 250 VAC, Internal ceramic body fuse.	Remote Sense	Compensates for up to 0.5V total distribution voltage drop on the V1 & V2 outputs.
Hold up time	20msec minimum after loss of AC Input at full load and any input	INH	Open to Run, Contact closure to return, turns off all outputs.
Efficiency	70% typical	FAIL Signal	Normal logic '1' TTL signal which goes low whenever the V1, V2 outputs fail, an overtemperature condition, an over voltage shut down, or an AC input failure (5msec warning before outputs go out of regulation).
Turn on time	1 sec max. from power up. All output voltages come up within 10msec of each other.	Cooling	Integral fans provide 50cfm of air flow.
Line and Load Regulation	±2% over AC input range and 0 to 100% load change.	Operating Temperature	-40°C to 50°C operating temperature with full load.
Minimum Load	5% minimum load required on V1 for V2 to regulate to full load. No minimum load required on V2-V4.	Stability	All outputs 0.1% for 8 hrs. after 30 minute warm-up.
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.	Humidity	Up to 95% non-condensing.
Transient Response	Output maximum excursion of ± 5% for 50% load step. Recovery less than 500 usec.	Storage Temperature	-40°C to 85°C.
Overshoot/Undershoot	No turn-on or turn-off overshoot.	Size	8" x 2.5" x 12" Weight: 12 lbs.
Output Isolation	Isolated from chassis ground, 50Vdc.	EMC	Meets EN55022 Level A / FCC Class A conducted.
Input/Output Isolation	2200 VDC from input to both chassis/outputs. SELV construction.	Safety	UL 1950, CSA C22.2 No. 950, EN60950.
Reverse Voltage	Protected against reverse voltage to supply current rating.		

SERIES BREAKDOWN: **GNX-1000X1-P**
 where X1= S for Single output, D for Dual output, T for Triple output or Q for Quad output

REV: E