

GNX-250

LOW PROFILE - 300 WATTS

ONE TO FOUR OUTPUTS - 20A CAPABILITY ON V2

POWER FACTOR CORRECTED 90-264 VAC

60 AMPS COMBINED CURRENT ON V1 & V2 OUTPUTS



FEATURES:

Low Profile 1.61" x 4.8" x 6" in Size

One to Four outputs

Meets EN55022 Level A / FCC Class A

No Additional Cooling Required up to 50 °C

Power Factor Corrected Input (90-264VAC)

Zero Wire Current Share on V1 Output

Greater than 150,000 Hrs MTBF



	OUTPUT VOLTAGE (VDC)	OUTPUT AMPERS (MAX)	OUTPUT POWER (WATTS)
V1	2 to 48	40	* 300
V2	2 to 24	20	120
V3	5 to 24	5	50
V4	2 to 24	2	50

* 300W Single output rated.

* IN PDF FORMAT,
PRINT OR ZOOM
TO SEE DRAWING

GNX-250 SERIES 300 WATT COMPACT SIZE

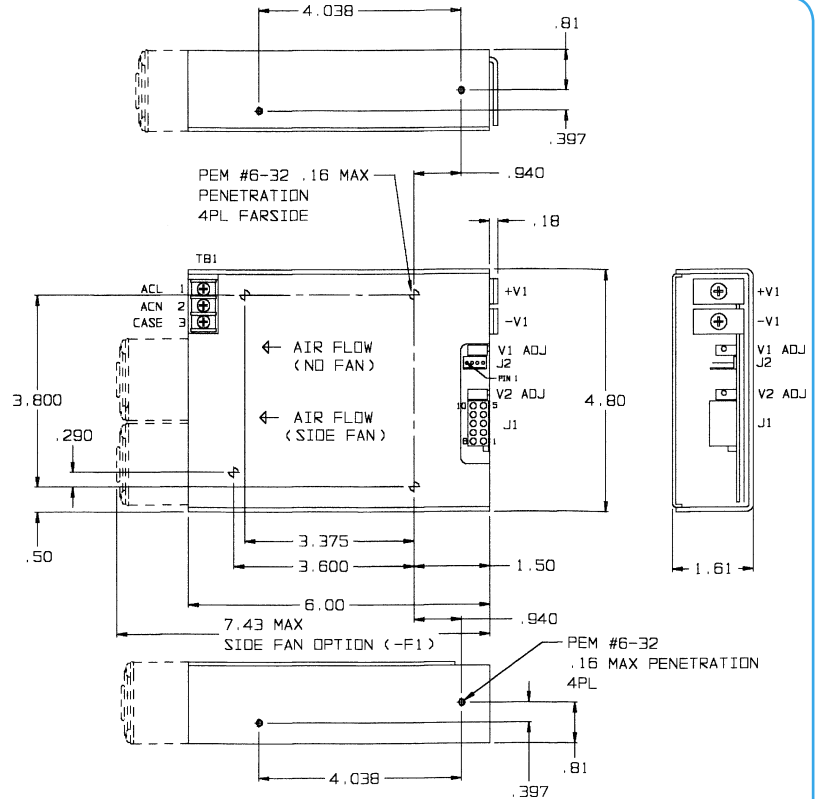
AC INPUT (90-264 VAC CONTINUOUS RANGE)			
FUNCTION	115VAC	230 VAC	CONNECTOR
TB1-1	LINE	LINE 1	BARRIER STRIP
TB1-2	NEUTRAL	LINE 2	#6-32 SCREWS
TB1-3	SAFETY GROUND	SAFETY GROUND	.325" CENTERS

DC OUTPUTS			
FUNCTION	DESCRIPTION	LOCATION	CONNECTOR
V1	+5V/40A	MAIN OUTPUT	BUS BARS # 8-32 THREADS
	+5V RTN		
V2	+3.3V/20A	J1-4, 5, 10	AMP #770743-1
	RTN	J1-3, 8, 9	MATES WITH CONN #770580-1 WITH
V3	+12V/4A	J1-7	SOCKETS #171839-1 (AWG #20 TO #16)
	RTN	J1-2	
V4	+12V/2A FLOATING	J1-1	
	-12V/2A FLOATING	J1-6	

STATUS AND CONTROL			
FUNCTION	LOCATION	NOTES	CONNECTOR
REMOTE SENSE	J2-1	OUTPUT #1 SENSE	MOLEX #22-04-1041
	J2-2	OUTPUT #1 SENSE RTN	
FAIL	J2-3	REFERENCE TO	MOLEX #22-01-1044
INHIBIT	J2-4	COMMON	

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 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.



Nominal Input Voltage	100-240 VAC.
Frequency	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. 30 amperes @ 115 VAC or 60 amperes @ 230 VAC.
Brownout Protection:	Holds Regulation to 85 Vac.
Fusing	5 Ampere, 250 VAC, Internal.
Hold up time	20msec minimum after loss of AC Input at full load and nominal input
Efficiency	75% typical
Turn on time	Less than 1 sec.
Line and Load Regulation	V1 output $\pm 2\%$ over AC input range and 0 to 100% loading. V2-V4 outputs hold 1% over AC input range and 0 to 100% load. 10% minimum load required on V1 for full load regulation on V2-V4.
Adjustability	Outputs #1, #2 adjustable $\pm 5\%$ minimum. Output #3, #4 fixed.
Ripple & Noise	1% PARD or 100mv which ever is greater. 20MHz bandwidth.
Transient Response	Output maximum excursion of $\pm 5\%$ for 50% load step. Recovery less than 500 psec.
Short Circuit and Overload Protection	All outputs are protected from short circuit and overload. Automatic recovery.
Overshoot	No turn-on or turn-off overshoot.
Output Isolation	Isolated from ground 50 Vdc.

Reverse Voltage	Protected against reverse voltage to supply current rating.
Overvoltage Protection	Shutdown at 130% of nominal Vout (V1-V3). V4 Fail safe design.
Overtemperature Protection	Unit shuts down if overheated. AC must be recycled.
Cooling	-F1 models equipped with Integral fan, up to 50°C Ambient full power. Models without -F1 fans, user provides min. 17 CFM.
Input/Output Isolation	4242 VDC, SELV construction.
Remote Sense (V1 Output)	Up to 0.5 volts total in load. Open Sense Lead Protection
Remote On/Off	Open to Run, Contact closure to return , turns off all outputs.
Fail	Provides TTL "0" 5ms before output voltage goes out of regulation band upon loss of AC power. Also Provides TTL "1" open collector when output #1 is above 4.6V (for 5V nominal output).
Operating Temperature	-20°C to 50°C full output.
Stability	All outputs 0.1% for 8 hrs. after 30 minute warm-up.
Humidity	Up to 95% non-condensing.
Size	1.61"x 4.8"x 6" Weight: 4 lbs.
EMI	Meets FCC Class A and EN55022 Level A
Safety	UL 1950, CSA C22.2 No. 950, EN60950.

SERIES BREAKDOWN: GNX-250X1-P-(F1)
where X1= S for Single output, D for Dual output, T for Triple output or Q for Quad output
Leave off the -(F1) if the user will provide cooling.