

GNX-250-DC

LOW PROFILE - 250 WATTS

ONE TO FOUR OUTPUTS - 20A CAPABILITY ON V2

36 - 75 VDC INPUT

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
- Wide Range Input (36-75VDC)
- 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	250
V2	2 to 24	20	120
V3	5 to 24	5	50
V4	2 to 24	2	50

GNX-250-DC SERIES

250 WATT COMPACT SIZE

DC INPUT (36-75 VDC CONTINUOUS RANGE)		
FUNCTION	-48VDC	CONNECTOR
TBI-1	-48V RTN	BARRIER STRIP
TBI-2	-48V	#6-32 SCREWS
TBI-3	SAFETY GROUND	.325" CENTERS

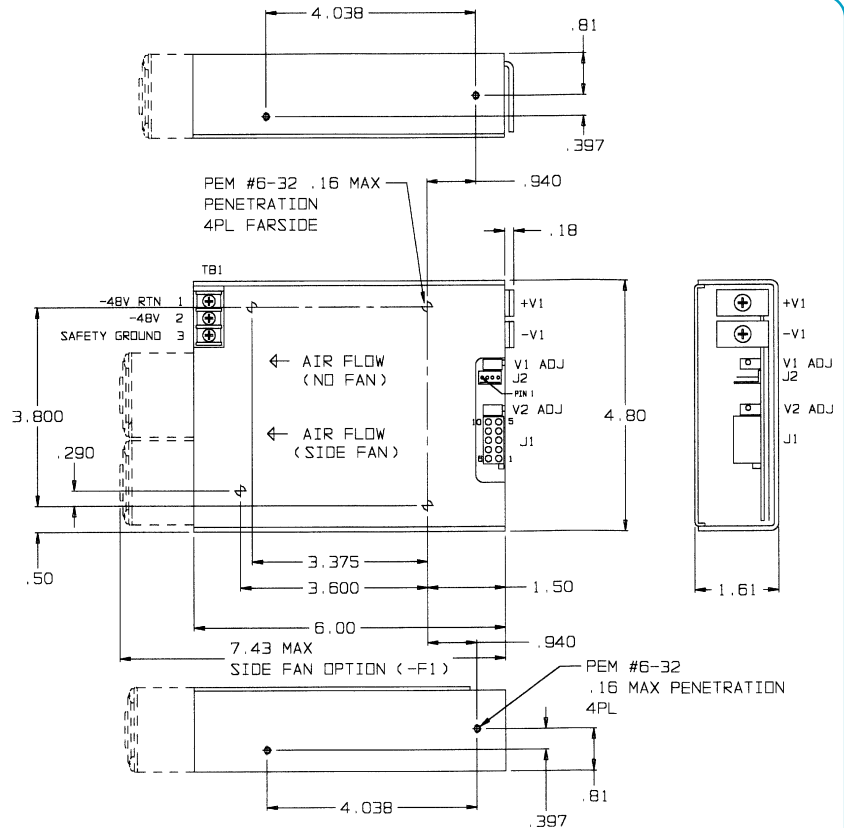
DC OUTPUTS			
FUNCTION	DESCRIPTION	LOCATION	CONNECTOR
V1	+5V/40A	MAIN OUTPUT	BUS BARS
	+5V RTN		# 8-32 THREADS
V2	+3.3V/20A	J1-4, 5, 10	AMP #770743-1
	RTN	J1-3, 8, 9	MATES WITH CONN
V3	+12V/4A	J1-7	#770580-1 WITH
	RTN	J1-2	SOCKETS #171639-1
V4	+12V/2A FLOATING	J1-1	(AWG #20 TO #16)
	-12V/2A FLOATING	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	MATES WITH
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.
- 36-75VDC INPUT.
- TOTAL OUTPUT POWER NOT TO EXCEED 250 WATTS.

*** IN PDF FORMAT, PRINT OR ZOOM TO SEE DRAWING**



Nominal Input Voltage	-48VDC, 8A max.	Overvoltage Protection	Shutdown at 130% of nominal Vout (V1-V3). V4 Fail safe design.
Operational Input Voltage Range	36 - 75 VDC	Overtemperature Protection	Unit shuts down if overheated. DC must be recycled.
Inrush Current	Less than 5 msec. 30 amperes @ -48VDC.	Cooling	-F1 models equipped with Integral fan, up to 50°C Ambient full power. Models without -F1 fans, user provides min. 17 CFM.
Fusing	15 Ampere, 125 VDC, Internal.	Input/Output Isolation	1500 VDC, SELV construction.
Hold up time	1msec minimum after loss of DC Input at full load and nominal input	Remote Sense (V1 Output)	Up to 0.5 volts total in load. Open Sense Lead Protection
Efficiency	70% typical	Remote On/Off	Open to Run, Contact closure to return, turns off all outputs.
Turn on time	Less than 1 sec.	Fail	Provides TTL "1" open collector when output #1 is above 4.6V (for 5V nominal output).
Line and Load Regulation	V1 output ± 2% over DC input range and 0 to 100% loading. V2-V4 outputs hold 1% over DC input range and 0 to 100% load. 10% minimum load required on V1 for full load regulation on V2-V4.	Operating Temperature	-20°C to 50°C full output.
Adjustability	Outputs #1, #2 adjustable ± 5% minimum. Output #3, #4 fixed.	Stability	All outputs 0.1% for 8 hrs. after 30 minute warm-up.
Ripple & Noise	1% PARD or 100mv which ever is greater. 20MHz bandwidth.	Humidity	Up to 95% non-condensing.
Transient Response	Output maximum excursion of ± 5% for 50% load step. Recovery less than 500 µsec.	Size	1.61"x 4.8"x 6" Weight: 4 lbs.
Short Circuit and Overload Protection	All outputs are protected from short circuit and overload. Automatic recovery.	EMI	Meets FCC Class A and EN55022 Level A
Overshoot	No turn-on or turn-off overshoot.	Safety	UL 1950, CSA C22.2 No. 950, EN60950.
Output Isolation	Isolated from ground 50 Vdc.		
Reverse Voltage	Protected against reverse voltage to supply current rating.		

SERIES BREAKDOWN: GNX-250X1-DC-(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.