

GNX-450-DC

LOW PROFILE - 450 WATTS

ONE TO FOUR OUTPUTS, 36 - 75 VDC INPUT

40 AMP CAPABILITY ON V2 - 50 AMPS ON V1



FEATURES:

- Low Profile 2.5" x 5" x 9.4" 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 - 75 VDC)
- 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	50	450
V2	1.8 to 24	40	200
V3	5 to 24	12/20pk	150
V4	5 to 24	4	75

GNX-450-DC SERIES

450 WATT COMPACT SIZE

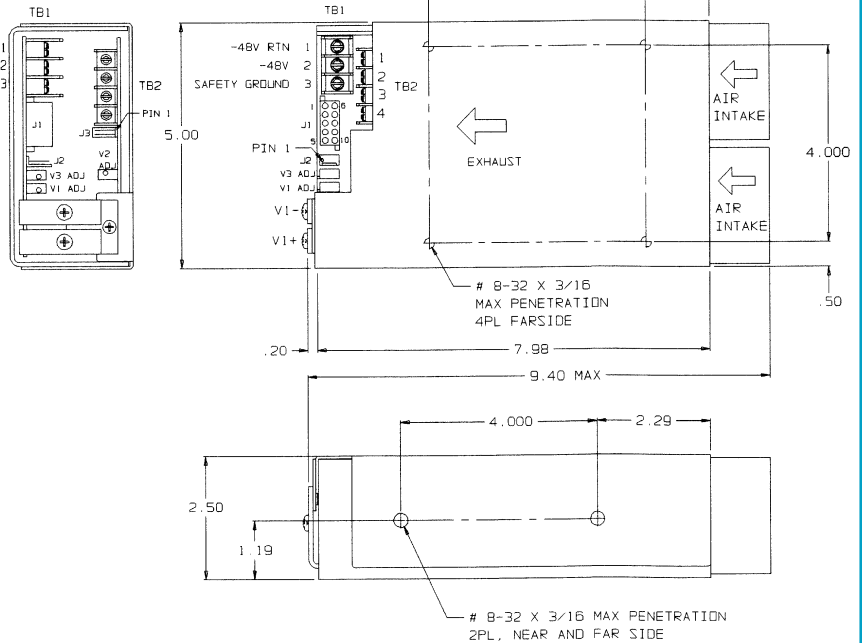
DC INPUT (36-75 VDC CONTINUOUS RANGE)		
FUNCTION		CONNECTOR
TB1-1	-48V RTN	BARRIER STRIP
TB1-2	-48V	#6-32 SCREWS
TB1-3	SAFETY GROUND	3/8" CENTERS

DC OUTPUTS			
FUNCTION	DESCRIPTION	LOCATION	CONNECTOR
V1	+5V/50A	MAIN OUTPUT	BUS BARS #10-32 SCREWS
V2	+3.3V/40A	TB2-1, 2	BARRIER STRIP #6-32 SCREWS ON 3/8" CENTERS
V3	+12V/12A-20A PK	J1-4, 5, 10	AMP #770743-1 MATES WITH CONN #770590-1& SOCKETS #171539-1 (AWG #20 TO #16)
V4	+12V/4A FLOATING	J1-2, 7	
	-12V/4A FLOATING	J1-1, 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 COMMON	MOLEX #22-01-1044
INHIBIT	J2-4	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:

1. INHIBIT IS OPEN TO RUN. CONTACT CLOSURE TO THE NEGATIVE SENSE LINE OR A TTL LEVEL "0" TURNS OFF DC OUTPUTS.
2. FAIL SIGNAL IS A NORMAL LOGIC "1" TTL SIGNAL WHICH GOES LOW UNDER ANY OF THE FOLLOWING CONDITIONS:
 - a). WHENEVER THE +5V OR THE +3.3V OUTPUT FAILS
 - b). WHENEVER THERE IS AN OVER TEMPERATURE CONDITION.
 - c). WHENEVER THERE IS AN OVER VOLTAGE SHUT DOWN.
3. 36-75VDC INPUT.
4. TOTAL OUTPUT POWER NOT TO EXCEED 450 WATTS.



* IN PDF FORMAT, PRINT OR ZOOM TO SEE DRAWING

<p>Nominal Input Voltage -48VDC, 15A max.</p> <p>Operational Input Voltage Range 36-75 VDC</p> <p>Inrush Current Less than 5 msec. 45 amperes @ -48 VDC</p> <p>Fusing 25 Ampere, 125 VDC, Internal ceramic body fuse.</p> <p>Hold up time 1msec minimum after loss of DC Input at full load and nominal input.</p> <p>Efficiency 70% typical</p> <p>Turn on time 1 sec max. from power up. All output voltages come up within 10msec of each other.</p> <p>Line and Load Regulation ±2% over DC input range and 0 to 100% load change.</p> <p>Minimum Load 10% minimum load required on V1 for V2 to regulate to full load. No minimum load required on V2-V4.</p> <p>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.</p> <p>Transient Response Output maximum excursion of ± 5% for 50% load step. Recovery less than 500 µsec.</p> <p>Overshoot/Undershoot No turn-on or turn-off overshoot.</p> <p>Output Isolation Isolated from chassis ground, 50Vdc.</p> <p>Input/Output Isolation 1500 VDC from input to both chassis/outputs. SELV construction.</p> <p>Reverse Voltage Protected against reverse voltage to supply current rating.</p> <p>Overvoltage Protection Shutdown at 130% of nominal Vout V1, V2, V3. V4 failsafe design. Recycle input power to reset.</p>	<p>Overtemperature Protection Unit shuts down if overheated. Recycle DC to reset.</p> <p>Current Limiting All outputs short circuit protected with foldback protection. Automatic recovery upon removal of the short.</p> <p>Paralleling Two or more supplies can be operated in parallel and will share V1/V2 current to within 10% of each other.</p> <p>Remote Sense Compensates for up to 0.5V total distribution voltage drop on the V1 & V2 outputs.</p> <p>INH Open to Run, Contact closure to return , turns off all outputs.</p> <p>FAIL Signal Normal logic '1' TTL signal which goes low whenever the V1 , V2 outputs fail, an overtemperature condition, an over voltage shut down.</p> <p>Cooling Integral fans provide 50cfm of air flow.</p> <p>Operating Temperature -40°C to 50°C operating temperature with full load.</p> <p>Stability All outputs 0.1% for 8 hrs. after 30 minute warm-up.</p> <p>Humidity Up to 95% non-condensing.</p> <p>Storage Temperature -40°C to 85°C.</p>	<p>Weight: 5 lbs.</p> <p>Size 5" x 2.5" x 9.4"</p> <p>EMC Meets EN55022 Level A / FCC Class A conducted.</p> <p>Safety UL 1950, CSA C22.2 No. 950, EN60950.</p>
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SERIES BREAKDOWN: GNX-450X1-DC

where X1= S for Single output, D for Dual output, T for Triple output or Q for Quad output

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