GNX-410-DC

LOW PROFILE - 400 WATTS
28 VDC INPUT (18-50 VDC)

120 AMP CAPABILITY ON V1 - 40 AMPS ON V2

KEY FEATURES:

- Low Profile 2.50" X 5.00" X 12.92"
- Wide Range DC Input (18-50 VDC)
- One to Four Outputs
- Utilizes High Efficiency PWM Topology
- Remote Sense on V1 & V2 Outputs
- Zero Wire Current Sharing on V1 & V2 Outputs
- No Additional Cooling Required up to 50°C
- Meets EN55022 Level A / FCC Class A
- Rugged Mechanical Design
- One Year Warranty
- Greater than 150,000 Hrs MTBF
- Proudly Made in U.S.A.

	OUTPUT VOLTAGE (VDC)	**OUTPUT AMPERS** (MAX)	**OUTPUT POWER** (WATTS)
V1	1.8 to 48	120	400*
V2	1.8 to 24	40	200
V3	5 to 24	12/20pk	150
V4	3.3 to 24	10	120

*Total output power not to exceed 400 watts

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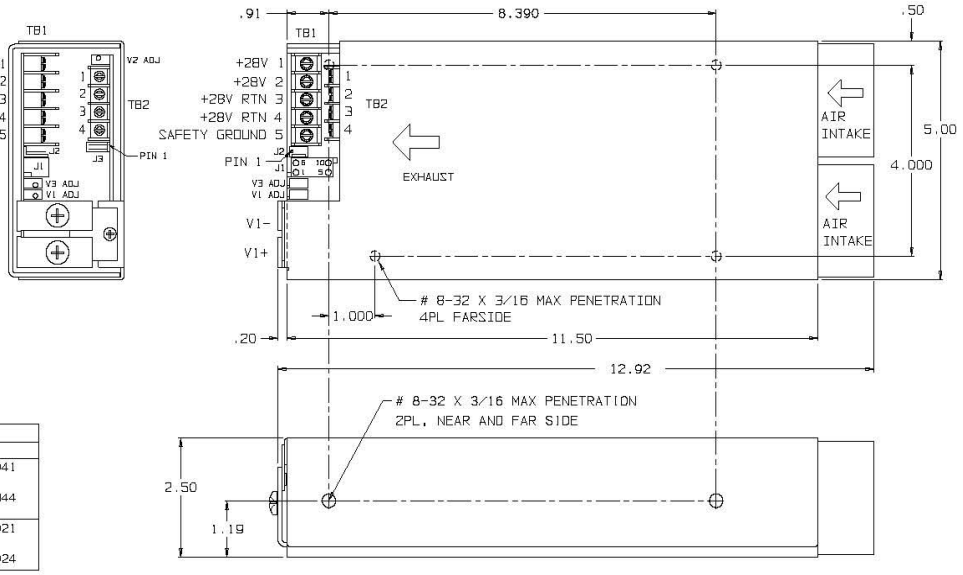
AS9100 ISO9001 REGISTERED

GNX-410-DC SERIES
400 WATT COMPACT SIZE



DC INPUT (18-50 VDC CONTINUOUS RANGE)		
FUNCTION	28VDC	CONNECTOR
TB1-1,2	+28V	BARRIER STRIP
TB1-3,4	+28V RTN	#6-32 SCREWS
TB1-5	SAFETY GROUND	3/8" CENTERS

DC OUTPUTS			
FUNCTION	DESCRIPTION	LOCATION	CONNECTOR
V1	+V1	MAIN OUTPUT	BUS BARS
	+V1 RTN		1/4-20 SCREWS
V2	+V2	TB2-1,2	AMP #770743-1
	+V2 RTN	TB2-3,4	MATES WITH CONN
V3	+V3	J1-4, 5, 10	#770580-1 WITH
	+V3 RTN	J1-3, 8, 9	SOCKETS #171639-1
V4	+V4 FLOATING	J1-2, 7	(AWG #20 TO #16)
	-V4 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	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

Nominal Input Voltage 24/28VDC, 30A max.

Operational Input Voltage Range 18 - 50VDC, 400 Watts Output. Designed to operate with input power per Mil-Std-704D, E & F.

Inrush Current Less than 5 msec. 30 amperes @ 28 VDC.

Fusing 40 Ampere, 300 VDC, Class G.

Hold up time 1msec minimum after loss of DC Input at full load and nominal input.

Efficiency 70% typical.

Turn on time 1 sec max. from power up. All output voltages come up within 10msec of each other.

Line and Load Regulation ±2% over DC input range and 0 to 100% load change.

Minimum Load 5% minimum load required on V1 for V2 to regulate to full load. No minimum load required on V2-V4.

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.

Transient Response Output maximum excursion of ±5% for 50% load step. Recovery less than 500 µsec.

Overshoot/Undershoot No turn-on or turn-off overshoot.

Output Isolation Isolated from chassis ground, 50Vdc.

Input/Output Isolation 1500 VDC from input to both chassis/outputs. SELV construction.

Reverse Voltage Protected against reverse voltage to supply current rating.

Overvoltage Protection Shutdown at 130% of nominal Vout V1, V2, V3. V4 failsafe design. Recycle input power to reset.

Overtemperature Protection Unit shuts down if overheated. Recycle DC to reset.

Current Limiting All outputs short circuit protected with Shutdown protection. Recycle DC to reset.

Peak Output Current Peak current can be delivered for a maximum period of 30 seconds.

Paralleling Two or more supplies can be operated in parallel and will share V1/V2 current to within 10% of each other.

Remote Sense Compensates for up to 0.5V total distribution voltage drop on the V1 & V2 outputs.

INH Open to Run, Contact closure to return , turns off all outputs.

FAIL Signal Normal logic '1' TTL signal which goes low whenever the V1 , V2 outputs fail, an overtemperature condition, an over voltage shut down.

Cooling Integral fans provide 50cfm of air flow.

Operating Temperature -40°C to 50°C operating temperature with full load.

Stability All outputs 0.1% for 8 hrs. after 30 minute warm-up.

Humidity Up to 95% non-condensing.

Storage Temperature -40°C to +85°C.

Size 5.00" x 2.50" x 12.92" **Weight:** 8 lbs.

EMC Meets EN55022 Level A / FCC Class A conducted.

Safety Designed to meet: UL 60950, CSA C22.2 No. 60950 & EN60950.

Common Options Conformal coating (Acrylic or Paylene), ruggedization, increased energy storage & special output configurations. Consult factory.

SERIES BREAKDOWN: GNX-410X1-DC

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