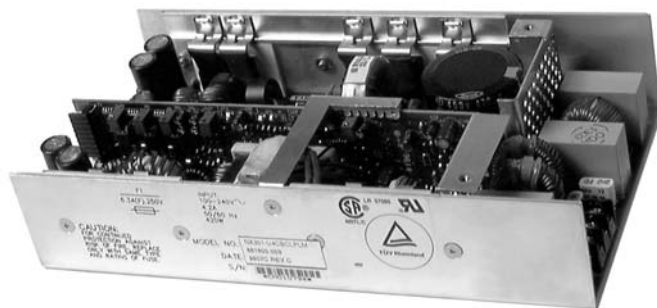


# OBSOLETE PRODUCT

Contact Factory for Replacement Model

# 300 WATT DC/DC POWER SUPPLY

## DNX301



### DESCRIPTION

The DNX301 is a compact 300 watt, multiple output power supply. All outputs are fully isolated and regulated. Active current sharing circuitry on Output #1, together with control functions and alarm options, simplifies N+1 and redundant applications. Fan and disk drive applications are handled by the peak current ratings of the auxiliary outputs.

### FEATURES

- Fully Isolated Outputs
- Low Profile: 9" x 4.85" x 2.00"
- One, Two, Three and Four Output Models
- N+1 Current Sharing
- Optional Fan Mounted On Cover
- Active Inrush Current Limiting

### AGENCY APPROVALS



TÜV Rheinland

See "Safety" section on page 2 for more information

## Input Specifications

Parameter	Conditions	Min	Typ	Max	Units
Operating Range	DC	36	48	72	V <sub>DC</sub>
Inrush Current Limiting	36V <sub>D</sub>			25	APK
	72V <sub>DC</sub>			50	APK
Efficiency	48 V <sub>DC</sub> , at full load		70		%

### Remote Sense

Remote Sense is provided on Output #1 and will compensate for 0.7V of line drop. Remote Sense leads are protected against open, short and reversal.

### Remote On/Off (Optional)

The power supply is turned on with a TTL logic '1' (or open) signal and turned off by a switch closure or TTL logic '0' referenced to (-) sense terminal. Consult the factory for other options.

### Over Voltage Protection

Output #1: 6.5V ± 0.5 V<sub>DC</sub>.

The power supply will latch off until AC power is cycled.

### Over Current Protection

Individual current limit on all outputs. Automatic recovery upon fault removal.

### Active Inrush Current Limiting

Inrush current is independent of ambient temperature.

### Transient Response

The peak output voltage excursion will not exceed 2% and will recover within 1% in 200 μsec for a 25% load step change.

### Over Temperature Protection

Thermal switch turns off power supply if overheating occurs and automatically restarts.

### Safety

Safety certified to UL/CUL to 1950, File Number E131694 TUV to EN60950/IEC950.

### Cooling

The unit is designed to operate with 30 CFM of airflow.

## Output Voltages and Maximum Rated Loads

MODEL NUMBER	OUTPUT #1		OUTPUT #2		OUTPUT #3		OUTPUT #4	
	V <sub>OUT</sub>	I <sub>MAX</sub>	V <sub>NOM</sub>	I <sub>MAX</sub> /I <sub>PK</sub>	V <sub>NOM</sub>	I <sub>MAX</sub> /I <sub>PK</sub>	V <sub>NOM</sub>	I <sub>MAX</sub>
DNX301-U3A	±5V	45A	±12V	8A/10A	±12V	8A/10A	-	-
DNX301-U3B	±5V	45A	±15V	8A/10A	±15V	8A/10A	-	-
DNX301-U4C	±5V	45A	±12V	8A/10A	±12V	8A/10A	±5V	3.0A
DNX301-U4D	±5V	45A	±12V	8A/10A	±12V	8A/10A	±24V	1.5A
DNX301-U4E	±5V	45A	±12V	8A/10A	±12V	8A/10A	±12V	3.0A
DNX301-U4F	±5V	45A	±15V	8A/10A	±15V	8A/10A	±5V	3.0A
DNX301-U4G	±5V	45A	±15V	8A/10A	±15V	8A/10A	±24V	1.5A
DNX301-U4H	±5V	45A	±15V	8A/10A	±15V	8A/10A	±12V	3.0A

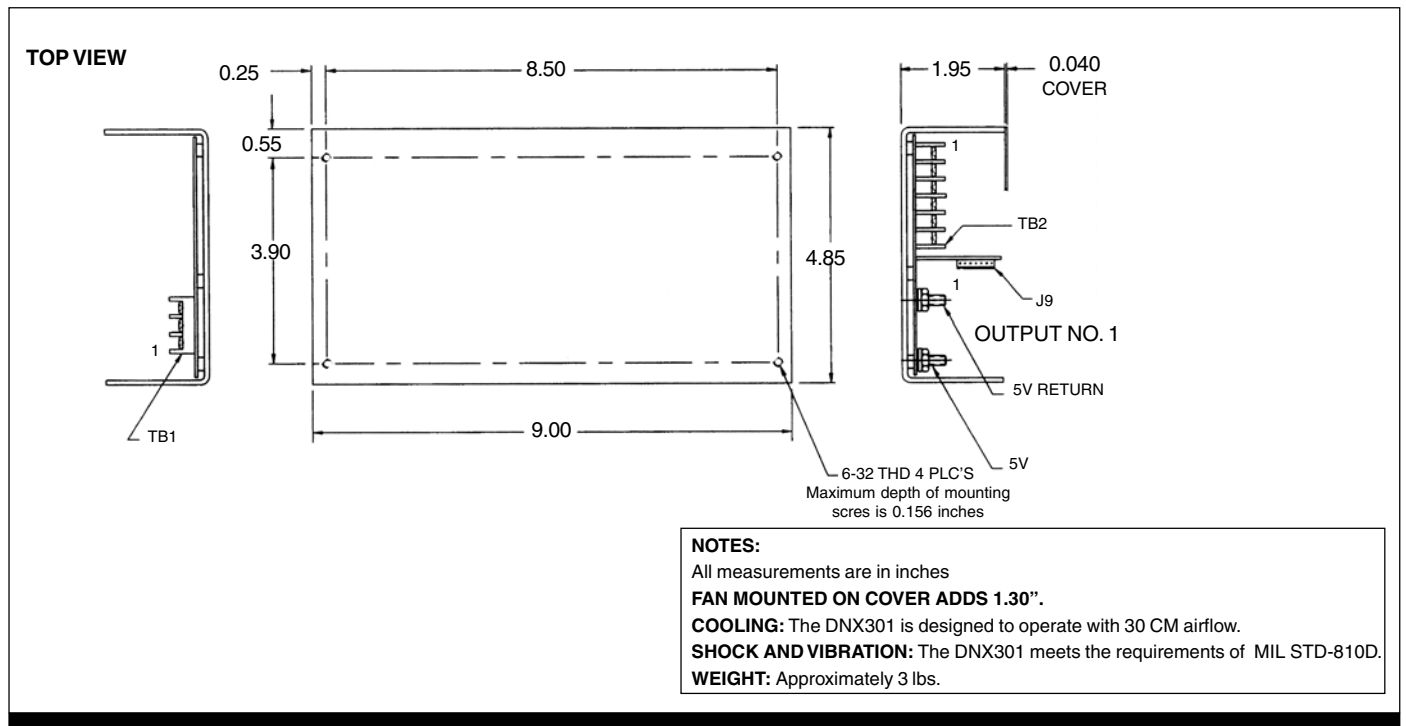
Note: Maximum current ratings are for 10sec maximum. Total power not to exceed 300 watts.

## Output Specifications

Parameter	Limits
Regulation	
Line	±0.03%
Load	±0.25%
Cross	±0.05%
Minimum Load	
Output #1	3.0A
Auxiliary Outputs	0.1A

Parameter	Conditions	Min	Typ	Max	Units
Voltage Adjustment Range			±5		%
PARD	20 MHz bandwidth			1	% P-P
Temperature					
Operating		0		50	°C
Storage		-20		+85	°C
Temperature Coefficient (Tc)	After half hour warm-up		±0.02		%/°C

## Mechanical



Terminal Block 1		Terminal Block 2	
POS	FUNCTION	POS	FUNCTION
1	DC +	1	-V2
2	DC -	2	+V2
3	Ground	3	-V3
		4	+V3
		5	-V4
		6	+V4

J9 Connector Molex No. 22-28-1090	
PIN	FUNCTION
1	+ Sense
2	- Sense
3	N/C
4	N/C
5	Start Up Sync.
6	N/C
7	Remote Inhibit
8	Current Share
9	Control Signal Rtn