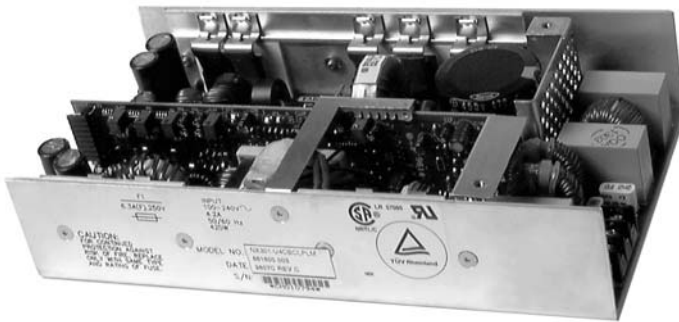


## OBSOLETE PRODUCT DC/DC POWER SUPPLY

Contact Factory for Replacement Model

### 350 WATT

# DNX350



### FEATURES

- Fully Isolated Outputs
- Low Profile: 9" x 4.85" x 2.00"
- One, Two, Three and Four Output Models
- Active Current Sharing on V1
- Optional Fan Covers (Top-Mounted or End-Mounted)
- Active Inrush Current Limiting
- 36-72Vdc Input

### DESCRIPTION

The DNX350 is a compact 350 watt, multiple output power supply that operates from a 36-72VDC source. 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.

### AGENCY APPROVALS



TÜV Rheinland

See "Safety" section on page 2 for more information

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# Input Specifications

Parameter	Conditions	Min	Typ	Max	Units
Operating Range	DC	36	48	72	V <sub>DC</sub>
Inrush Current Limiting	36V <sub>DC</sub>			25	APK
	72V <sub>DC</sub>			50	APK
Efficiency	48V <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.

### 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/IEC 950.

### 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> /I <sub>PK</sub>
DNX350-U1A	+5V	50A						
DNX350-U3A	± 5V	50A	± 12V	10A/12A	± 12V	8A/10A	-	-
DNX350-U3B	± 5V	50A	± 15V	10A/12A	± 15V	8A/10A	-	-
DNX350-U4C	± 5V	50A	± 12V	10A/12A	± 12V	8A/10A	± 5V	3.0A
DNX350-U4D	± 5V	50A	± 12V	10A/12A	± 12V	8A/10A	± 24V	1.5A
DNX350-U4E	± 5V	50A	± 12V	10A/12A	± 12V	8A/10A	± 12V	3.0A
DNX350-U4F	± 5V	50A	± 15V	10A/12A	± 15V	8A/10A	± 5V	3.0A
DNX350-U4G	± 5V	50A	± 15V	10A/12A	± 15V	8A/10A	± 24V	1.5A
DNX350-U4H	± 5V	50A	± 15V	10A/12A	± 15V	8A/10A	± 12V	3.0A
DNX350-U4I	± 5V	50A	± 15V	10A/12A	± 15V	8A/10A	± 12V	3.0A

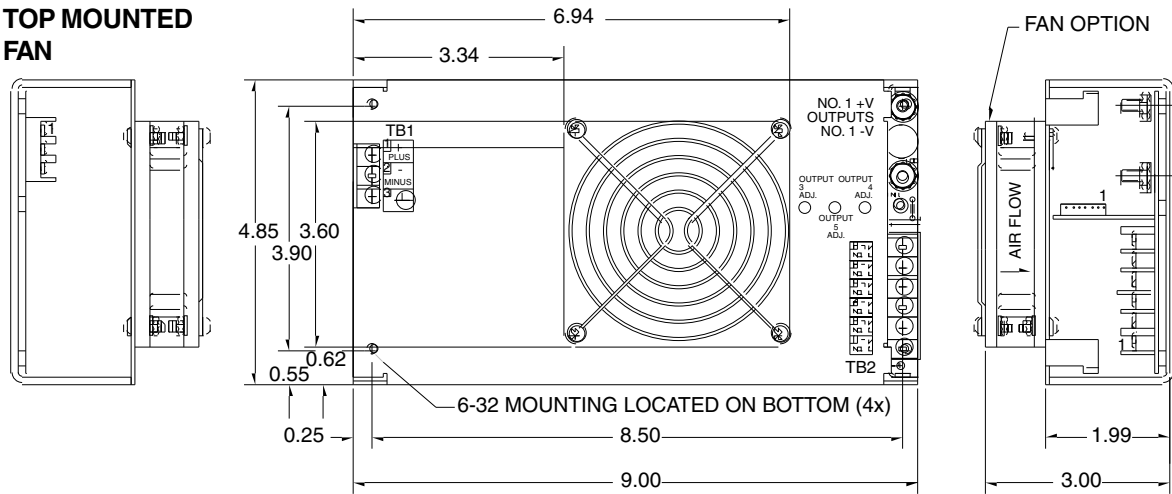
## Output Specifications

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

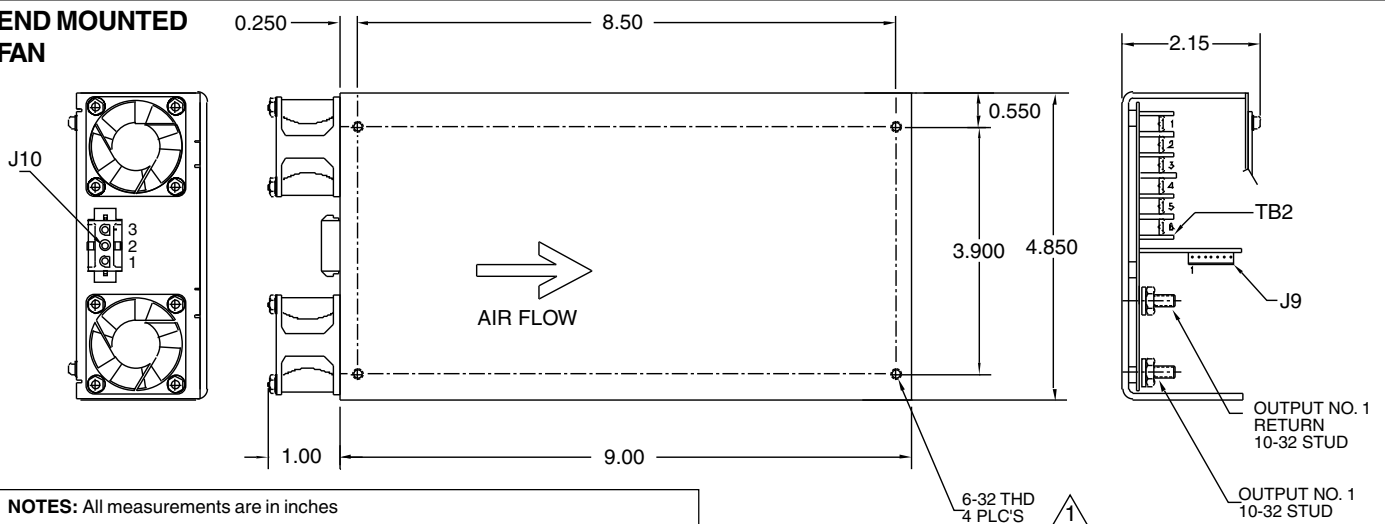
Parameter	Conditions	Min	Typ	Max	Units
Voltage Adjustment Range	Nominal line on all outputs		±5		%
PARD	Peak-to-peak 20 MHz bandwidth			1	% P-P
Temperature					
Operating		0		50	°C
Storage		-20		+70	°C
Temperature Coefficient (Tc)	After half hour warm-up		± 0.02		%/°C

# Mechanical

## TOP MOUNTED FAN



## END MOUNTED FAN



**NOTES:** All measurements are in inches  
**COOLING:** The DNX350 is designed to operate with 30 CM airflow.  
**SHOCK AND VIBRATION:** The DNX350 meets the requirements of MIL STD-810D.  
**WEIGHT:** Approximately 3 lbs.

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

J10 Connector* AMP 1-480701-1	
POS	FUNCTION
1	DC+
2	DC-
3	GROUND

\*Used with end-mounted fan cover, option "V"