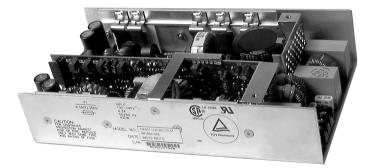


### Product Data Sheet

## 350 WATT DC/DC POWER SUPPLY

# **DNX350**



## 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.

## 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

#### AGENCY APPROVALS



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## **Input Specifications**

Parameter	Conditions	Min	Тур	Max	Units
Operating Range	DC	36	48	72	VDC
Inrush Current Limiting					
	36VDC			25	Арк
	72Vbc			50	Арк
Efficiency	48VDC 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:  $6.5V \pm 0.5 V_{DC}$ . 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  $\mu sec$  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.

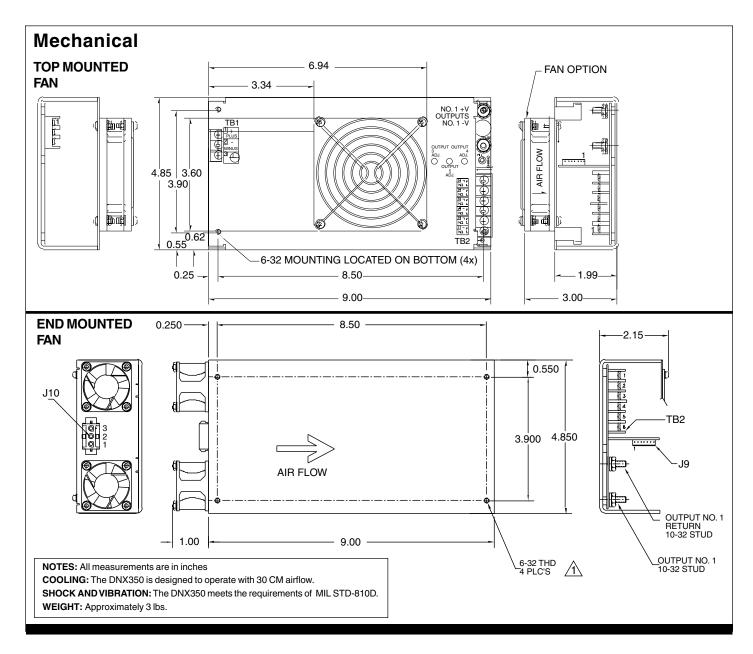
## **Output Voltages and Maximum Rated Loads**

	OUTPUT #1	OUTPUT #2	OUTPUT #3	OUTPUT #4
MODEL NUMBER	<b>V</b> OUT <b>I</b> MAX	<b>V</b> NOM <b>Ι</b> ΜΑΧ/ <b>Ι</b> ΡΚ	<b>V</b> NOM MAX/IPK	<b>V</b> NOM <b>Ι</b> ΜΑΧ/ <b>Ι</b> ΡΚ
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	Тур	Max	Units
Voltage Adustment 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



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

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"