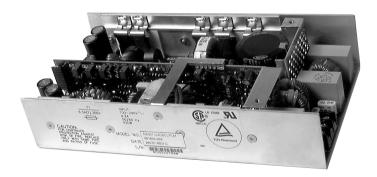


Product Data Sheet

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



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DNX350 4/2002 REV B Page 1

Input Specifications

Parameter	Conditions	Min	Тур	Max	Units
Operating Range	DC	36	48	72	VDC
Inrush Current Limiting					
	36Vpc			25	Арк
	72Vpc			50	Арк
Efficiency	48Vpc 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 VDC.

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.

Page 2 DNX350 4/2002 REVB

Output Voltages and Maximum Rated Loads

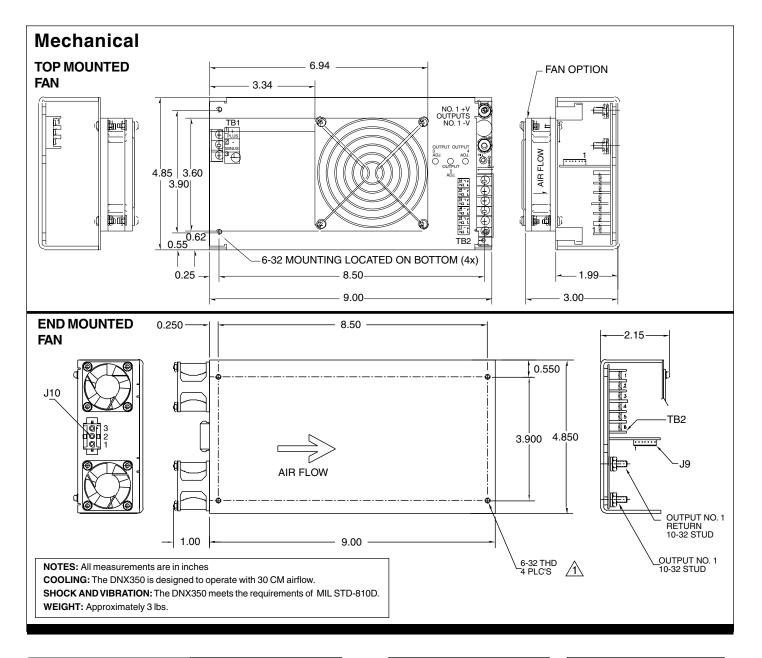
	OUTPUT #1	OUTPUT #2	OUTPUT #3	OUTPUT #4
MODEL NUMBER	Vout Imax	VNOM IMAX/IPK	VNOM IMAX/IPK	VNOM MAX/IPK
DNX350-U1A	+5V 50A			
DNX350-U3A	± 5V 50A	± 12V 10A/12A	± 12V 8A/10A	
DNX350-U3B	± 5V 50A	± 15V 10A/12A	± 15V 8A/10A	
DNX350-U4C	± 5V 50A	± 12V 10A/12A	± 12V 8A/10A	± 5V 3.0A
DNX350-U4D	± 5V 50A	± 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

DNX350 4/2002 REV B Page 3



Terminal Block 1		Termi	nal 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"

Page 4 DNX350 4/2002 REV B