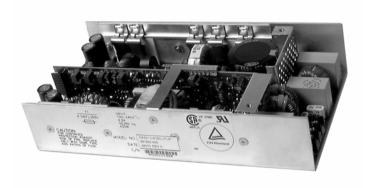


Product Data Sheet

350 WATT AC/DC Power Supply

NX350



DESCRIPTION

The NX350 is a compact 350 watt Power Factor Corrected, multiple output power supply. All outputs are fully isolated and regulated. Active current sharing circuitry, 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

- Active Power Factor Correction
- Fully Isolated Outputs
- Low Profile: 9" x 4.85" x 2.00"
- One, Two, Three and Four Output Models
- N+1 Current Sharing
- FCC/VDE Class B EMI Filter Standard
- Optional Fan Mounted On Cover



Internet: http://www.cdpowerelectronics.com

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Input Specifications

Parameter	Conditions	Min	Тур	Max	Units
Operating Range	47-63 Hz	90		264	VAC
Inrush Current Limiting					
	120VAC, cold start			37	A PK
	240Vac cold start			70	A PK
Efficiency					
	120V, full load		70		%
	240V, full load		75		%
Power Factor Correction (PFC)			0.99		
Meets IEC 1000-4-7/EN61000-3-2 (formerly IEC 555-2)					

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/Of

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: $6.5V \pm 0.5 V_{DC}$.

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.

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.

Output Isolation

All outputs are fully isolated.

Power Fail Signal

Upon AC input voltage removal, the power fail signal drops to logic zero at least 5msec before loss of DC output. On AC input turn-on, signal remains low until outputs are in regulation. Consult the factory for other options.

N+1 Load Share

Output #1 has active load sharing circuitry. Units will load share within 1.5% of Maximum Rated Load.

OverTemperature Protection

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

Safety

UL Recognized: UL File Number E14675 (1950 & 1012)
CSA Certified: CSA File Number LR 9070-154C

(C22.2 No. 234-M90, Level 6)

TUV License Number: R9576031 (EN60950) (IEC950)

Cooling

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

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Output Voltages and Maximum Rated Loads

MODEL NUMBER	OUTPUT #1 Vout Imax	OUTPUT #2 Vnom Imax/Ipk	OUTPUT#3 Vnom Imax/Ipk	OUTPUT #4 Vnom Imax/Ipk
NX350-U3A	± 5V 50A	± 12V 10A/12A	± 12V 8A/10A	
NX350-U3B	± 5V 50A	± 15V 10A/12A	± 15V 8A/10A	
NX350-U4C	± 5V 50A	± 12V 10A/12A	± 12V 8A/10A	± 5V 3.0A/4.0A
NX350-U4D	± 5V 50A	± 12V 10A/12A	± 12V 8A/10A	± 24V 1.5A/2.0A
NX350-U4E	± 5V 50A	± 12V 10A/12A	± 12V 8A/10A	± 12V 3.0A/4.0A
NX350-U4F	± 5V 50A	± 15V 10A/12A	± 15V 8A/10A	± 5V 3.0A/4.0A
NX350-U4G	± 5V 50A	± 15V 10A/12A	± 15V 8A/10A	± 24V 1.5A/2.0A
NX350-U4H	± 5V 50A	± 15V 10A/12A	± 15V 8A/10A	± 12V 3.0A/4.0A

Note: Peak current ratings are for 10sec maximum. Total power not to exceed 350 watts.

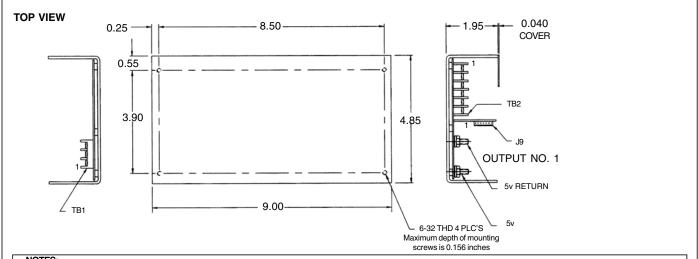
Output Specifications

Parameter	Limits	
Regulation		
Line	± 0.03%	
Load	±0.25%	
Cross	±0.05%	
Minimum Load		
Output #1	3.0A	
Auxiliary Outputs	0.1A	
Hold-Up Time	20mSec at Full Load	

Parameter	Conditions	Min	Тур	Max	Units
Voltage Adustment Range	Nominal line on all outputs	Nominal line on all outputs ±5			%
PARD	Peak-to-peak 20 MHz bandwidth			1	%
Temperature					
Operating		0		50	°C
	Derates to half power			70	°C
Storage		-20		+85	°C
Temperature Coefficient (Tc)	After half hour warm-up		± 0.02		%/°C

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Mechanical



NOTES:

All measurements are in inches

FAN MOUNTED ON COVER WILL ADD 1.30".

COOLING: The NX350 is designed to operate with 30 CM airflow.

SHOCK AND VIBRATION: The NX350 meets the requirements of MIL STD-810D. (Vibration-Method 514.3 Procedure I; Shock-Method 516.3 Procedure I.)

WEIGHT: Approximately 3 lbs.

Terminal Block 1		Termi	Terminal Block 2		
POS	FUNCTION	POS	FUNCTION		
1	AC Line	1	-V2		
2	AC Neutral	2	+V2		
3	Ground	3	-V3		
		4	+V3		
		5	-V4		
		6	+V4		

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

Standard Options are shown, consult factory for other available options.

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