400 WATTS

NXT-400 SERIES AC-DC

FEATURES:

- RoHS Compliant
- 2 Year Warranty
- High Efficiency, 85% typical
- High Power Density, 8.5 W / cu in.
- Compact 3.9" x 8.0" x 1.5" size
- EN 60950-1 ITE Certification
- EN 60601-1 Medical Certification
- EMC to EN 61000-6-2 & EN 60601-1-2
- Advanced SMT Design
- Optional Chassis/Cover
- Optional Single Wire Load Sharing
- Optional Remote Inhibit/Enable



OPEN FRAME

CHASSIS/COVER

SAFETY SI	PECIFICATIONS	
General		Protection Class: I Overvoltage Category: II Pollution Degree: 2
c 711 us	Underwriters Laboratories File E137708/E140259	UL 60950-1 2 nd Edition, 2007 UL 60601-1 1 st Edition, 2006 ANSI/AAMI ES 60601-1, 2005
IECEE SEHEME		CB Reports/Certificates (including all National and Group Deviations) IEC 60950-1/a1:2009, Second Edition IEC 60601-1:1988 +A1:1991 +A2:1995 IEC 60601-1:2005 Third Edition
c 911 us	UL Recognition Mark for Canada File E137708/E140259	CAN/CSA-C22.2 No. 60950-1-07, 2 nd Edition CAN/CSA-C22.2 No. 601-1-M90, 2005 CAN/CSA-C22.2 No. 60601-1:2008
SUD	TUV	EN 60950-1/A12:2011 EN 60601-1/A2:1995 EN 60601-1:2006
CE	Low Voltage Directive RoHS Directive (Recast)	(2006/95/EC of December 2006) (2011/65/EU of June 2011)

MODEL LISTING

OPEN FRAME		CHASSIS/COVER		
MODEL	300 LFM	CONVECTION COOLED	300 LFM	CONVECTION COOLED
NXT-400-1001	2.5V/80.0A	2.5V/45.0A	2.5V/72.0A	2.5V/40.5A
NXT-400-1002	3.3V/80.0A	3.3V/45.0A	3.3V/72.0A	3.3V/40.5A
NXT-400-1003	5V/80.0A	5V/45.0A	5V/72.0A	5V/40.5A
NXT-400-1004	12V/33.3A	12V/18.8A	12V/29.9A	12V/16.9A
NXT-400-1005	15V/26.7A	15V/15.0A	15V/24.0A	15V/13.5A
NXT-400-1006	24V/16.7A	24V/9.4A	24V/15.0A	24V/8.5A
NXT-400-1007	28V/14.3A	28V/8.0A	28V/12.8A	28V/7.2A
NXT-400-1008	48V/8.3A	48V/4.7A	48V/7.5A	48V/4.2A

Please refer to Output Power Derating chart.

ORDERING INFORMATION

Please specify the following optional features when ordering:

CH - Chassis LSEVB - Load Share Evaluation Board

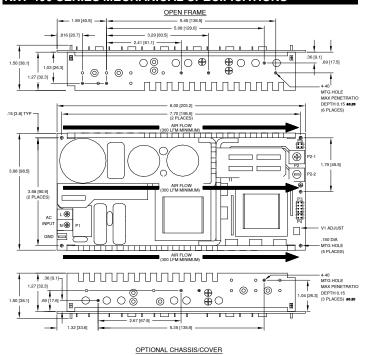
CO - Cover RE - Remote Inhibit

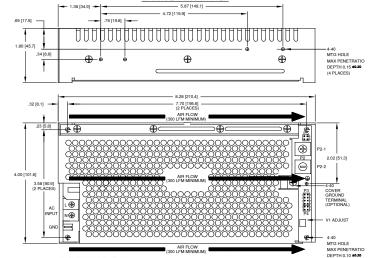
LS - Single Wire Load Sharing

All specifications are maximum at 25° C, 400W unless otherwise stated, may vary by model and are subject to change without notice.

	Convection Cooled, Open Frame
	300 LFM Forced Air, Open Frame
	(50% load)
	(**************************************
0.5%	(0-100% load change)
0.5%	
	Whichever is greater
	o within 1% of initial set point due to a 50
Latching between	500µS maximum, 4% maximum deviation 110% and 150% of rated output voltage.
	Pout, cycle on/off, auto recovery
3 Seconds, 120V	
85 - 264 Volts AC	
47 – 63 Hz	
	Delay fuse
85% Typical, Full	Power varies by model
U.90 (FUII POWER,	230V), 0.98 (Full Power, 120V)
	wer Bating Chart
Output voltage is	inhibited during excessive internal
- 40° C to + 85° C	
20-90% non-cond	
10,000 ft. ASL O	perating/ 40,000 ft. ASL Non-operating
0.02%/°C	
	dz per MIL-STD-810F Method 514.5
	STD-810F Method 516.5
1MOOP (Means o	of Operator Protection) stion(Consult factory for 1MOOP or 1MOP)
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1MOOP (Means of Operational Insular 5656 VDC, Prima 2545 VDC, Prima 707 VDC, Second 400 ANC, <100 <100 ANC, <500 Logic low with input 1 dropping Isolated. Contact Single wire currer return. Minimum of output current ratibetween modules my for remaining Isolated 5 VDC ± Option. 400mV compensa 100,000 Hours mi 2.65 Lbs. Open FOM ATIBIL EN 61000-4-2 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-6 EN 61000-4-8	of Operator Protection) tition(Consult factory for 1MOOP or 1MOP) try to Secondary, 1 Sec. rry to Ground, 1 Sec. lary to Ground, 1 Sec. lary to Ground, 1 Sec. lary to Ground, 1 Sec. louA SFC buA SFC tut power failure 10 ms minimum prior to 1%. closure inhibits output. th sharing with return via negative sense current share load is 10% of each module ng. Maximum output voltage deviation is 5% for 2.5 through 5 V models and 40 models. 10%, 10mA available with Remote Inhibitation of output cable losses in., MIL-HDBK-217F, 25° C, GB frame/ 3.60 Lbs. Chassis and Cover ITY SPECIFICATIONS ±6kV Contact/±8kV Air Discharge 80-2500MHz, 10V/m, 80% AM ±2 kV ±2 kV Line to Earth/±1 kV Line to Line .15 to 80MHz, 10V, 80% AM 30A/m, 50/60 Hz. 95% Dip, 10ms 30% Dip, 500ms
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1MOOP (Means of Operational Insular 5656 VDC, Prima 2545 VDC, Prima 707 VDC, Second <300uA NC, <100c <100uA NC, <500 Logic low with insular 1 dropping Isolated. Contact Single wire current return. Minimum of output current ratification between modules mV for remaining Isolated 5 VDC ± Option. 400mV compensa 100,000 Hours mi 2.65 Lbs. Open Fill Single Wife Current 100,000 Hours mi 2.65 Lbs.	of Operator Protection) tition(Consult factory for 1MOOP or 1MOP ry to Secondary, 1 Sec. ry to Ground, 1 Sec. lary to Ground, 1 Sec. louA SFC buA SFC tut power failure 10 ms minimum prior to 1%. closure inhibits output. It sharing with return via negative sense current share load is 10% of each module ng. Maximum output voltage deviation is 5% for 2.5 through 5 V models and 40 models. 10%, 10mA available with Remote Inhib lation of output cable losses in., MIL-HDBK-217F, 25° C, GB Frame/ 3.60 Lbs. Chassis and Cover ITY SPECIFICATIONS ±6kV Contact/±8kV Air Discharge 80-2500MHz, 10V/m, 80% AM ±2 kV ±2 kV Line to Earth/±1 kV Line to Line .15 to 80MHz, 10V, 80% AM 30A/m, 50/60 Hz. 95% Dip, 10ms 30% Dip, 500ms 60% Reduction, 1s (Criteria B) 95% Reduction, 5s Class B
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	0.5% 1.0% or 100mV None Output recovers to step load change, Latching, betweer 110-130% rated F 16 mS min., Full F 3 Seconds, 120V S 85 - 264 Volts AC 47 - 63 Hz Internal 10A Time 50A (cold) 85% Typical, Full 0.95 (Full Power, CIFICATION 0° C to + 70° C Derating: See Poi Output voltage is temperatures, aut - 40° C to + 85° C 20-90% non-cond 10,000 ft. ASL O 0.02%/°C

NXT-400 SERIES MECHANICAL SPECIFICATIONS





CONNECTOR SPECIFICATIONS

Р1 AC Input Terminal block with 6-32 screws on **(4)** 0.325 centers mates with #6, spade terminals. (8 in-lb max) I N P2 10-32 screw down terminal mates with DC Output OUTPUT 1 (-) OUTPUT 1 (+) #10 ring tongue terminal. (10 in-lb Max) P3 Load Share. .100 friction lock header mates with 4 SHARE BUS 8 SFNSF (-) Sense Molex 22-55-2081 or equivalent crimp ENABLE SENSE (-) terminal housing with Molex 71851 or 6 OUTPUT 1 (-) OUTPUT 1 (+) 2 equivalent crimp terminal. SENSE (+) ■ 5 SENSE (-) Power .100 friction lock header mates with P4 Molex 22-55-2041 or equivalent crimp Fail 4 P.F. RTN P.F. RTN terminal housing with Molex 71851 or 3 P.F. SIG (+) P.F. SIG (+) crimp equivalent terminal. P5 Inhibit, .100 friction lock header mates with 4 STBY PWR (-) INHIBIT RTN Molex 22-55-2041 or equivalent crimp Standby

Power

Ground

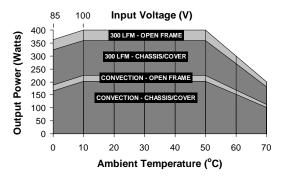
terminal housing with Molex 71851 or equivalent crimp terminal.

.187 quick disconnect terminal.

APPLICATIONS INFORMATION

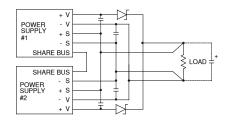
- Sufficient area must be provided around power supply to allow natural movement of air to develop in convection cooled applications.
- 300 linear feet per minute (minimum) of airflow must be maintained along all outside surfaces of exposed heatsinks or chassis. See recommended air flow diagram as a guideline.
- Generally, adequate cooling is provided when semiconductor case temperatures do not exceed 75° C rise and transformer temperature does not exceed 80° C rise at any specified ambient temperature.
- 4. This product is intended for use as a professionally installed component within information technology, industrial and medical equipment and is not intended for stand alone operation. Common RF shielding precautions may need to be taken to assure emissions compliance. Refer to operating instructions for additional information.
- This product includes only one fuse in the input circuit. In consideration of Clause 8.11.5 of IEC 60601-1:2005, a second fuse may be required in the end product.
- 6. Low forward voltage drop oring diodes must be used in all load sharing applications in 2.5 through 15 Volt models. Oring diodes must be used on 24 through 48 Volt models used in fault tolerant applications but are optional in power boosting applications. Oring diode power dissipation must be subtracted from the maximum output power rating of each model.
- Current carrying conductors in load sharing applications must be short and symmetrical. Remote sense conductors should be a twisted pair. The use of an appropriately rated low impedance capacitor across the load will increase noise immunity.
- Refer to Load Share Evaluation Board data sheet (page 58) for additional load share applications information.
- Remote sense terminals may be used to compensate for cable losses up to 400 mV depending on model. The use of a twisted pair, decoupling capacitors and an appropriately rated low impedance capacitor connected across the load will increase noise immunity.
- 10. A load equal to 5% rated output power must be maintained when using standby power option. An external electrolytic capacitor across standby power output may be used to improve transient response.
- 11. Peak to peak output ripple and noise is measured directly at the output terminals of the power supply, without the use of the probe ground lead or retractable tip, 20 MHz bandwidth.
- 12. This product was type tested and safety certified using the dielectric strength test voltages listed in Table 6 of IEC 60601-1:2005. In consideration of Clause 8.8.3, care must be taken to insure that the voltage applied to a reinforced insulation does not overstress different types and levels of insulation. Primary and secondary to ground capacitors may need to be disconnected prior to performing a dielectric strength test on the power supply or the end product. It is highly recommended that the DC test voltages listed in DVB.1, Annex DVB of UL 60601-1 1st Edition are not exceeded during a production-line dielectric strength test of the assembled end product. Please consult factory for further information.
- 13. This power supply has been safety approved and final tested using a DC dielectric strength test. Please consult factory before performing an AC dielectric strength test.
- 14. Maximum screw penetration into bottom chassis mounting holes is .100 inches.
- 15. Maximum screw penetration into side chassis mounting holes is .150 inches.
- 16. To comply with emissions specifications, all five mounting hole pads must be electrically connected to a common metal chassis. Chassis/cover option recommended and should be grounded.

MAX Pout vs. AMBIENT TEMPERATURE/INPUT VOLTAGE



Derating requirements – Chart above applies to models 1003 thru 1008 only. 400 Watts 300 LFM forced air, open frame. 225 Watts convection cooled open frame. Derate 10% with chassis and cover. Derate 2.5 Wout / 1 VIN below 100 VIN and between 100 VIN and 85 VIN. Use larger of the two deratings when using chassis/cover below 100 VIN. Derate output power linearly to 50% between 50° and 70° C

TYPICAL LOAD SHARE/REMOTE SENSE APPLICATION



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