## **FEATURES:**

- Compact 3.9" x 8.0" x 1.5" Size
- 3 Year Warranty
- Universal 85-264V Input
- Single High Efficiency Output
- Power Fail Warning
- 0-70°C Operating Temperature
- RoHS Compliant
- IEC 60601-1 3rd ed. Medical Cert.
- IEC 62368-1 2<sup>nd</sup> ed. Certification
- IEC 60601-1-2 4th ed. EMC
- Class B Emissions per EN55011/32
- Optional Single Wire Load Sharing
- Optional Remote Inhibit/Enable
- Optional Chassis/Cover



CHASSIS/COVER

**OPEN FRAME** 

# **SAFETY SPECIFICATIONS**



Underwriters Laboratories CTU US File E137708/E140259

UL 62368-1:2014, 2nd Edition CAN/CSA-C22.2 No. 62368-1-14 AAMI/ANSI ES60601-1:2005/(R) 2012 CAN/CSA-C22.2 No. 60601-1:2014



CB Reports/Certificates (including all IEC 62368-1:2014, 2nd Edition National and Group Deviations) IEC 60601-1:2005/A1:2012



EN 62368-1:2014, 2nd Edition TUV SUD America EN 60601-1:2006/A1:2013



Low Voltage Directive (2014/35/EU of February 2014) RoHS Directive (Recast) (2011/65/EU of June 2011)



Electrical Equipment (Safety) Regulations 2016 SI No. 1101

Restriction of the Use of Certain Hazardous Substances in EEE Regulations 2012 SI No. 3032 + 2019 SI No.492

### **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**

Consult factory for alternate output configurations. Please specify the following optional features when ordering:

LSEVB - Load Share Evaluation Board CH - Chassis 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.

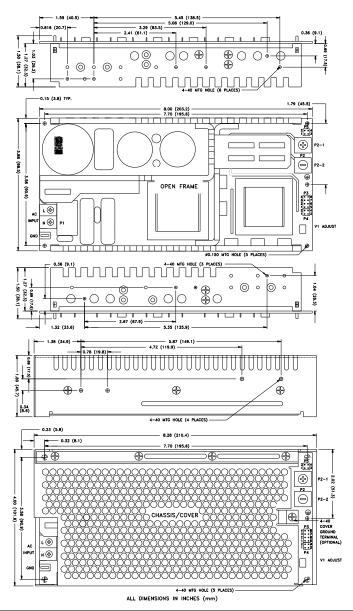
<b>NX I -4</b>	·UU
UT SPECIFI	CATIONS
	Convection Cooled, Open Frame
400W	300LFM Forced-Air Cooled <sub>(15)</sub>
2.5 Wout / 1 Vin I	
± 0.5%	(50% load)
95-105%	
0.5%	(0-100% load change)
0.5%	
	Whichever is greater
Output recovers t	o within 1% of initial set point due to a 50%
Latching between	, 500µS maximum, 4% maximum deviation. n 110% and 150% of rated output voltage.
	Pout, cycle on/off, auto recovery
JT SPECIFIC	ATIONS
	<u> </u>
85 – 264 Volts A0	
47 – 63 Hz	
Internal 10A Time	e Delay fuse
50A (cold)	
85% Typical, Full	Power varies by model
	230V), 0.98 (Full Power, 120V)
	ECIFICATIONS
	inhibited during excessive internal
	tomatic reset.
	la nation
	perating/ 40,000 ft. ASL Non-operating
	perating/ 40,000 it. ASL INOn-operating
	Hz per MIL-STD-810F Method 514.5
	L-STD-810F Method 516.5
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RAL SPECIF	CATIONS
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	2.5 Wour / 1 Vin I ± 0.5% 95-105% 0.5% 1.0% or 100mV None Output recovers t step load change Latching, betweer 110-130% rated I 16ms min., Full P 3 Seconds, 120V IT SPECIFIC I 85 - 264 Volts AC 47 - 63 Hz Internal 10A Time 50A (cold) 85% Typical, Full Power, I Full Po

EN 61000-3-3

Compliant

Voltage Fluctuations/Flicker

### **NXT-400 SERIES MECHANICAL SPECIFICATIONS**



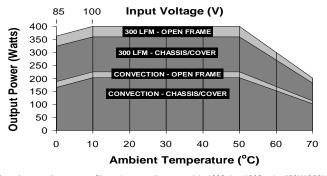
## **CONNECTOR SPECIFICATIONS**

P1	AC Input	Terminal block with 6-32 screws on 0.325 centers mates with #6, spade terminals. (8 in-lb max)
P2 OUTPUT 1 (-)	DC Output	10-32 screw down terminal mates with #10 ring tongue terminal. (10 in-lb Max)
P3   SHARE BUS   4	Load Share, Sense	0.100 friction lock header mates with Molex 22-55-2081 or equivalent crimp terminal housing with Molex 71851 or equivalent crimp terminal.
P.F. RTN 2 • • 4 P.F. RTN P.F. SIG (+) 1 • • 3 P.F. SIG (+)	Power Fail	0.100 friction lock header mates with Molex 22-55-2041 or equivalent crimp terminal housing with Molex 71851 or crimp equivalent terminal.
P5 INHIBIT RTN 2		0.100 friction lock header mates with Molex 22-55-2041 or equivalent crimp terminal housing with Molex 71851 or equivalent crimp terminal.
	Ground	0.187 quick disconnect terminal.

### **APPLICATIONS INFORMATION**

- Continuous Output Power must not exceed 400W.
- Generally, adequate cooling is provided when semiconductor case temperatures do not exceed 70°C rise and transformer temperature does not exceed 60°C rise at any specified ambient temperature.
- Sufficient area must be provided around power supply to allow natural movement of air to develop in convection-cooled applications.
- 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.
- 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 neutral conductor of the end product.
- 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 (tip-and-barrel method), 20MHz bandwidth.
- 7. 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.
- 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.
- Remote-Sense terminals may be used to compensate for cable losses up to 400mV depending on model. The use of a twisted pair, decoupling capacitors and an appropriately-rated lowimpedance capacitor connected across the load will increase noise immunity.
- Maximum screw penetration into bottom chassis mounting holes is 0.100 inches. Maximum screw penetration into side chassis mounting holes is 0.250 inches.
- 11. To comply with emissions specifications, all four mounting hole pads must be electrically connected to a common metal chassis. Chassis/Cover option is recommended. Refer to Operating Instructions for additional information.
- Common RF shielding precautions may need to be taken to assure emissions compliance.
   Refer to Operating Instructions for additional information.
- Power Fail (AC-Ğood) feature provides a logic-low warning signal from an open collector transistor output 10ms prior to loss of output from AC failure.
- 14. 300LFM of airflow must be maintained one inch above the top of the heatsinks in any direction in open-frame forced-air applications; and one inch above and toward any of the three perforated sides of the cover in forced-air Chassis/Cover applications.
- 15. Low forward-voltage-drop oring diodes must be used in all load-sharing applications in 2.5 through 15V models. Oring diodes must be used on 24 through 48V 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.
- 16. Current-carrying conductors in load-sharing applications must be short and symmetrical.
- Refer to Load-Share Evaluation Board data sheet for additional load-share applications information
- 18. 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.

# MAX P<sub>OUT</sub> vs. AMBIENT TEMPERATURE/INPUT VOLTAGE



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

## TYPICAL LOAD SHARE/REMOTE SENSE APPLICATION

