225 WATTS

SINGLE OUTPUT AC-DC

FEATURES:

- Compact 3.0" x 5.0" 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 60601-1-2 4th ed. EMC
 Class B Emissions per EN55011/32
- Optional Single Wire Load Sharing

• IEC 60601-1 3rd ed. Medical Cert.

• IEC 62368-1 2nd ed. Certification

- Optional Remote Inhibit/Enable
- Optional Chassis/Cover



 RoHS Directive (Recast)
 (2014)00/E0 of Postulary 2014/

 (2015/863/EU of March 2015)

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-225-1001	2.5V/53.0A	2.5V/30.0A	2.5V/47.7A	2.5V/27.0A
NXT-225-1002	3.3V/53.0A	3.3V/30.0A	3.3V/47.7A	3.3V/27.0A
NXT-225-1003	5V/45.0A	5V/30.0A	5V/40.5A	5V/27.0A
NXT-225-1004	12V/18.8A	12V/12.5A	12V/16.9A	12V/11.3A
NXT-225-1005	15V/15.0A	15V/10.0A	15V/13.5A	15V/9.0A
NXT-225-1006	24V/9.4A	24V/6.3A	24V/8.5A	24V/5.7A
NXT-225-1007	28V/8.0A	28V/5.4A	28V/7.2A	28V/4.9A
NXT-225-1008	48V/4.7A	48V/3.1A	48V/4.2A	48V/2.8A
NXT-225-10091	56V/4A	56V/2.7A	56V/3.6A	56V/2.4A
Please refer to Outr	ut Power Deratin	a chart		

Please refer to Output Power Derating chart.

1. Approved to 62368-1 only.

ORDERING INFORMATION

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

CH - Chassis CO - Cover

UK

CA

LSEVB - Load Share Evaluation Board RE - Remote Inhibit

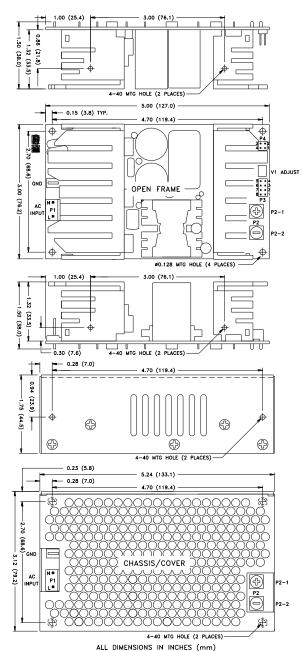
All specifications are maximum at $25^{\circ}C/225W$ unless otherwise stated, may vary by model and are subject to change without notice.

NXT-225

	UT SPECIFICATIONS		
Output Power at 50°C(1)	150W Convection Cooled, Open Frame		
(See Derating Chart)	225W 300LFM Forced-Air Cooled(15)		
Power Derating	1.5 Wout / 1 Vin below 100 Vin		
Voltage Centering	± 0.5% (50% load)		
Voltage Adjust Range	95-105%		
Load Regulation	0.5% (0-100% load change)		
Source Regulation Noise	0.5% 1.0% or 100mV Whichever is greater		
Turn on Overshoot	None		
Transient Response	Output recovers to within 1% of initial set point due		
·	to a 50% step load change, 500µS maximum,		
	4% maximum deviation.		
Overvoltage Protection Overpower Protection	Latching, between 110% and 150% of rated output voltage.		
Hold Up Time	110-130% rated Pout, cycle on/off, auto recovery 16m min., Full Power, 85-264V Input		
Start Up Time	3 Seconds, 120V Input		
	IT SPECIFICATIONS		
Protection Class			
Source Voltage	85 – 264 Volts AC		
Frequency Range	47 – 63 Hz		
Input Protection(6)	Internal 5A Time Delay fuse		
Peak Inrush Current Efficiency	50A (cold)		
Power Factor	85% Typical, Full Power varies by model 0.95 (Full Power, 230V), 0.98 (Full Power, 120V)		
Ambient Operating	0°C to + 70°C		
Temperature Range	Derating: See Power Rating Chart		
Ambient Storage Temp. Range	- 40°C to + 85°C		
Operating Relative Humidity Range	20-90% non-condensing		
Altitude	3,000m ASL - Operating		
Temperature Coefficient	12,192m ASL – Non-Operating 0.02%/°C		
Vibration	2.5g, 10Hz2KHz per MIL-STD-810F Method 516.5		
Shock	20g, peak per MIL-STD-810F Method 516.5		
	RAL SPECIFICATIONS		
Means of Protection			
Primary to Secondary	2MOPP (Means of Patient Protection)		
Primary to Secondary Primary to Ground	1MOOP (Means of Operator Protection)		
Primary to Secondary Primary to Ground Secondary to Ground			
Primary to Secondary Primary to Ground	1MOOP (Means of Operator Protection) Operational Insulation(Consultfactory for 1MOPP)		
Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(8, 9) Reinforced Insulation Basic Insulation	1MOOP (Means of Operator Protection) Operational Insulation(Consultfactory for 1MOPP) 5656 VDC, Primary to Secondary 2121 VDC, Primary to Ground		
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LS - Single Wire Load Sharing



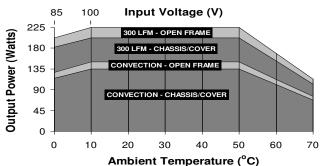
CONNECTOR SPECIFICATIONS

P1 • NEUTRAL • LINE	AC Input	0.156 friction lock header mates with Molex 09-50-3031 or equivalent crimp terminal housing with Molex 2478 or equivalent crimp terminal.
P2 0UTPUT 1 (+)	DC Output	6-32 screw down terminal mates with #6 ring tongue terminal. (10 in-lb Max)
P3 SHARE BUS 5 P.F. SIG (+) 6 SENSE (-) 7 SENSE (+) 8 P3 P3 P3 P3 P3 P3 P4 P3 P4 P3 P4 P3 P4 P3 P4 P4 P4 P4 P4 P4 P4 P4 P4 P4	Power Fail, Load Share, Sense	0.100 friction lock header mates with Molex 22-55-2081 or equivalent crimp terminal housing with Molex 71851 or crimp equivalent terminal.
P4 NHIBIT 3 • • 2 INHIBIT RTN STBY PWR (+) 4 • 1 STBY RTN (-)	Inhibit, Standby Power	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

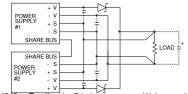
- 1. Continuous Output Power must not exceed 225W.
- Generally, adequate cooling is provided when semiconductor case temperatures do not exceed 70°C rise and transformer temperature does not exceed 60°C rise at any specified ambient temperature.
- Sufficient area must be provided around power supply 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.
- A minimum load of 10% is required on Output 1 to ensure proper regulation of remaining outputs.
- 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.
- 8. 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.
- 12. 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-Good) feature provides a logic-low warning signal from an open collector transistor output 10ms prior to loss of output from AC failure.
- 15. 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.
- 16. 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.
- 17. Current-carrying conductors in load-sharing applications must be short and symmetrical.
- Refer to Load-Share Evaluation Board data sheet (page 58) for additional load-share applications information.
- 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 Pout vs. AMBIENT TEMPERATURE/INPUT VOLTAGE



Derating requirements – Chart above applies to models 1003 thru 1008 only. 225W 300LFM forced air, open frame. 150W convection cooled open frame. Derate 10% with chassis and cover. Derate 1.5Wourt/1V_{IN} below 100V_{IN} and between 100V_{IN} and 85V_{IN}. Use larger of the two deratings when using chassis/cover below 100V_{IN}. Derate output power linearly to 50% between 50° and 70°C.

TYPICAL LOAD SHARE/REMOTE SENSE APPLICATION





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