350 WATTS

SINGLE OUTPUT AC-DC

FEATURES:

- Compact 3.9" x 6.0" 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 2nd 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						
c AL us	Underwriters Laboratories File E137708/E140259	UL 62368-1:2014, 2 nd Edition CAN/CSA-C22.2 No. 62368-1-14, 2 nd Edition AAMI/ANSI ES60601-1:2005/(R) 2012(R)2021 CAN/CSA-C22.2 No. 60601-1:2014:2022				
	CB Reports/Certificates (including a National and Group Deviations)	II IEC 62368-1:2014, 2nd Edition IEC 60601-1:2005/A1:2012/A2:2020				
SUD	TUV SUD America	EN 62368-1:2014, 2nd Edition EN 60601-1:2006/A1:2013/A2:2021				
	Low Voltage Directive RoHS Directive (Recast)	(2014/35/EU of February 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	CHASS	IS/COVER
MODEL	300 LFM	CONVECTION COOLED	300 LFM	CONVECTION COOLED
NXT-325-1001	2.5V/65.0A	2.5V/40.0A	2.5V/58.5A	2.5V/36.0A
NXT-325-1002	3.3V/65.0A	3.3V/40.0A	3.3V/58.5A	3.3V/36.0A
NXT-325-1003	5V/65.0A	5V/40.0A	5V/58.5A	5V/36.0A
NXT-325-1004	12V/29.2A	12V/16.7A	12V/26.3A	12V/15.0A
NXT-325-1005	15V/23.3A	15V/13.3A	15V/20.9A	15V/12.0A
NXT-325-1006	24V/14.6A	24V/8.3A	24V/13.1A	24V/7.5A
NXT-325-1007	28V/12.5A	28V/7.1A	28V/11.3A	28V/6.4A
NXT-325-1008	48V/7.3A	48V/4.2A	48V/6.6A	48V/3.8A

Please refer to Output Power Derating chart.

ORDERING INFORMATION

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

CH - Chassis CO - Cover LS - Single Wire Load Sharing LSEVB - Load Share Evaluation Board RE - Remote Inhibit WT - Low Temperature Turn On

All specifications are maximum at 25°C/maximum rated power unless otherwise stated, may vary by model and

Are subject to change without notice.

NXT-325

OUTPUT SPECIFICATIONS					
Output Power at 50°C(1)	100-202W	Convection Cooled, Open Frame			
(See Derating Chart)	163-350W	300LFM Forced-Air Cooled(15)			
Power Derating	2.0 Wout / 1 Vin B				
Voltage Centering	± 0.5%	(50% load)			
Voltage Adjust Range	95-105%				
Load Regulation	0.5%	(0-100% load change)			
Source Regulation	0.5%	Which aver is an atom			
Noise Turn on Overshoot	1.0% or 100mV None	Whichever is greater			
Transient Response		o within 1% of initial set point due to a 50%			
		, 500µS maximum, 4% maximum deviation.			
Overvoltage Protection		n 110% and 150% of rated output voltage.			
Overpower Protection		Pout, cycle on/off, auto recovery			
Hold Up Time		ower, 85-264V Input			
Start Up Time	3 Seconds, 120V				
	JT SPECIFIC	ATIONS			
Protection Class	 				
Source Voltage	85 - 264 Volts A0	;			
Frequency Range	47 – 63 Hz	Delay fue			
Input Protection ₍₆₎ Peak Inrush Current	Internal 8A Time 50A (cold)	Delay luse			
Efficiency		Power varies by model			
Power Factor	0.95 (Full Power	230V), 0.98 (Full Power, 120V)			
		ECIFICATIONS			
Ambient Operating	0°C to + 70°C				
Temperature Range	Derating: See Po	wer Rating Chart			
Thermal Shutdown		inhibited during excessive internal			
	temperatures, au				
Ambient Storage Temp. Range	- 40°C to + 85°C				
Operating Relative Humidity Range	20-90% non-cond				
Altitude	3,000m ASL - Op				
	12,192m. ASL – I	Non-Operating			
Temperature Coefficient	0.02%/°C				
Vibration		0-2000Hz, 1 octave/min, 3 axis, 1 hour each			
Shock	20g, 11ms, 3 axis				
	RAL SPECIF	ICATIONS			
Means of Protection					
Primary to Secondary	2MODD (Magne (of Datient Drotection			
Primary to Secondary Primary to Ground		of Patient Protection			
Primary to Secondary Primary to Ground Secondary to Ground	1MOOP (Means of	of Patient Protection of Operator Protection) ation(Consult factory for 1MOPP)			
Primary to Ground	1MOOP (Means of	of Operator Protection)			
Primary to Ground Secondary to Ground Dielectric Strength(8, 9) Reinforced Insulation	1MOOP (Means of Operational Insula 5656 VDC, Prima	of Operator Protection) ation(Consult factory for 1MOPP) ry to Secondary			
Primary to Ground Secondary to Ground Dielectric Strength(8, 9) Reinforced Insulation Basic Insulation	1MOOP (Means o Operational Insula 5656 VDC, Prima 2121 VDC, Prima	of Operator Protection) ation(Consult factory for 1MOPP) ry to Secondary ry to Ground			
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Primary to Ground Secondary to Ground Dielectric Strength _(8, 9) Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current	1MOOP (Means of Operational Insula 5656 VDC, Prima 2121 VDC, Prima 707 VDC, Secon <300µA NC, <10 <100µA NC, <50	of Operator Protection) stion(Consult factory for 1MOPP) ry to Secondary ry to Ground adary to Ground 00µA SFC 0µA SFC			
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Primary to Ground Secondary to Ground Dielectric Strength(8, 9) Reinforced Insulation Basic Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal(14) Remote Inhibit (optional) Load Share (optional)(16, 17, 18) Standby Power (optional)(19) Remote Sense(10) Mean-Time Between Failures Weight EMCSPECIFICATIONS Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity	1MOOP (Means of Operational Insula 5656 VDC, Prima 2121 VDC, Prima 707 VDC, Secor <300µA NC, <100 <100µA NC, <500 Logic low with inp output 1 dropping Isolated. Contact Single wire curren return. Minimum of output current rat between modules mV for remaining Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 1.40 Lbs. Open f (IEC 60601-1-2 EN 61000-4-2 EN 61000-4-3 EN 61000-4-4	of Operator Protection) stion(Consult factory for 1MOPP) ry to Secondary ry to Ground ddary to Ground 00µA SFC 0µA SFC 0µA SFC ut power failure 10 ms minimum prior to 1%. closure inhibits output. nt sharing with retum via negative sense surrent share load is 10% of each module's ng. Maximum output voltage deviation is 5% for 2.5 through 5 V models and 400 models. :10%, 10 mA available only with Remote ation of output cable losses in., MIL-HDBK-217F, 25° C, GB Frame/ 2.15 Lbs. Chassis and Cover ::2014, 4 TH ed./IEC 61000-6-2:2005) ±8KV contact / ±15KV air discharge A #80MHz-2.7GHz, 10V/m, 80% AM ±2 KV, 5KHz/100KHz A ±2 KV line to earth / ±1 KV line to line			
Primary to Ground Secondary to Ground Dielectric Strength _(8, 9) Reinforced Insulation Basic Insulation Useakage Current Earth Leakage Touch Current Power Fail Signal ₍₁₄₎ Remote Inhibit (optional) Load Share (optional)(16, 17, 18) Standby Power (optional)(19) Remote Sense ₍₁₀₎ Mean-Time Between Failures Weight EINC SPECIFICATIONS Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity	1MOOP (Means of Operational Insula 5656 VDC, Prima 2121 VDC, Prima 707 VDC, Secor <300µA NC, <100 <100µA NC, <500 Logic low with inp output 1 dropping Isolated. Contact Single wire currer return. Minimum of output current rat between modules mV for remaining Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 1.40 Lbs. Open F (IEC 60601-1-2 EN 61000-4-2 EN 61000-4-3 EN 61000-4-5	of Operator Protection) stion(Consult factory for 1MOPP) ry to Secondary ry to Ground ddary to Ground 00µA SFC 0µA SFC ut power failure 10 ms minimum prior to 1%. closure inhibits output. nt sharing with return via negative sense current share load is 10% of each module's ing. ng. Maximum output voltage deviation ris 5% for 2.5 through 5 V models and 400 models. :10%, 10 mA available only with Remote ation of output cable losses in., MIL-HDBK-217F, 25° C, GB rame/ 2.15 Lbs. Chassis and Cover ::::::::::::::::::::::::::::::::::::			
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NXT-325 SERIES MECHANICAL SPECIFICATIONS



ALL DIMENSIONS IN INCHES (mm)

CONNECTOR SPECIFICATIONS

P1 NEUTRAL	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 OUTPUT 1 (+)	DC Output	10-32 screw down terminal mates with #10 ring tongue terminal. (10 in-lb Max)
P3 4 ENABLE P.F. SIG (+) 6 • 3 P.F. RTN SENSE (-) 7 • 2 OUTPUT 1 (-) SENSE (+) 8 • 1 OUTPUT 1 (+)	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 INHIBIT 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 350W or maximum power per model listing.
- 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.
- 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.
- 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 1004 thru 1008 only. 350W 300LFM forced air, open frame. 200W convection cooled open frame. Derate 10% with chassis and cover. Derate 1.5Wout/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. Refer to model listing for all ratings.

TYPICAL LOAD SHARE/REMOTE SENSE APPLICATION



