350 WATTS

SINGLE OUTPUT AC-DO

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 UL 62368-1:2014, 2nd Edition **Underwriters Laboratories** CAN/CSA-C22.2 No. 62368-1-14 c **TII** us File E137708/E140259 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) (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 CONVECTION CONVECTION MODEL 300 LFM 300 LFM **COOLED** COOLED NXT-325-1001 2.5V/65.0A 2.5V/40.0A 2.5V/58.5A 2.5V/36.0A 3.3V/40.0A NXT-325-1002 3.3V/65.0A 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 24V/13.1A NXT-325-1006 24V/14.6A 24V/8.3A 24V/7.5A NXT-325-1007 28V/12.5A 28V/7.1A 28V/11.3A 28V/6.4A NXT-325-1008 48V/4.2A 48V/6.6A 48V/3.8A 48V/7.3A

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 LSEVB - Load Share Evaluation Board CO - Cover RE - Remote Inhibit

LS - Single Wire Load Sharing

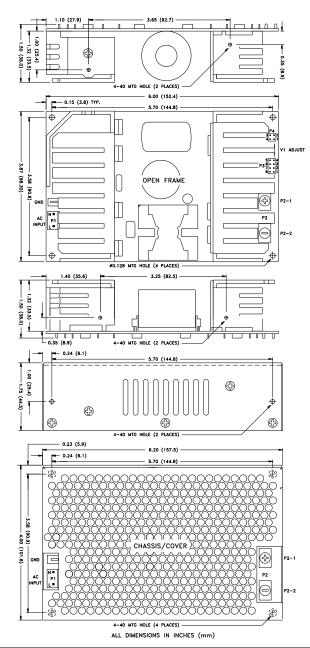
All specifications are maximum at 25°C/maximum rated power unless otherwise stated, may vary by model and

Are subject to change without notice.

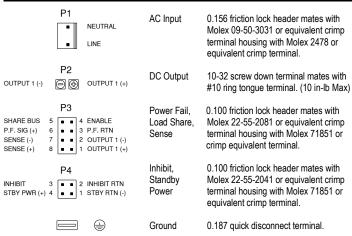
NXT-325

	NXT-325
	PUT SPECIFICATIONS
Output Power at 50°C ₍₁₎	100-202W Convection Cooled, Open Frame
(See Derating Chart) Power Derating	163-350W 300LFM Forced-Air Cooled ₍₁₅₎
Power Derating Voltage Centering	2.0 Wout / 1 Vin below 100 Vin ± 0.5% (50% load)
Voltage Adjust Range	95-105% (30 % load)
Load Regulation	0.5% (0-100% load change)
Source Regulation	0.5%
Noise	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 step load change, 500µS maximum, 4% maximum devia
Overvoltage Protection	Latching, between 110% and 150% of rated output volta
Overpower Protection	110-130% rated Pout, cycle on/off, auto recovery
Hold Up Time	16ms min., Full Power, 85-264V Input
Start Up Time	3 Seconds, 120V Input
	PUT SPECIFICATIONS
Protection Class Source Voltage	I 85 – 264 Volts AC
Frequency Range	47 – 63 Hz
nput Protection(6)	Internal 8A Time Delay fuse
Peak Inrush Current	50A (cold)
Efficiency	85% Typical, Full Power varies by model
Power Factor	0.95 (Full Power, 230V), 0.98 (Full Power, 120V)
	NMENTAL SPECIFICATIONS
Ambient Operating	0°C to + 70°C
Temperature Range Thermal Shutdown	Derating: See Power Rating Chart Output voltage is inhibited during excessive internal
memiai Shuldown	temperatures, automatic reset.
Ambient Storage Temp. Range	- 40°C to + 85°C
Operating Relative Humidity Rang	
Altitude	3,000m ASL - Operating
Ailliude	12,192m. ASL - Non-Operating
Temperature Coefficient	0.02%/°C
Vibration	2.5G swept sine, 10–2000Hz, 1 octave/min, 3 axis, 1 houre
Shock	20g, 11ms, 3 axis.
Means of Protection	ERAL SPECIFICATIONS
	2MOPP (Means of Patient Protection
Primary to Secondary Primary to Ground	2MOPP (Means of Patient Protection 1MOOP (Means of Operator Protection)
Primary to Secondary Primary to Ground Secondary to Ground	
Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(8, 9)	1MOOP (Means of Operator Protection) Operational Insulation(Consult factory for 1MOPP)
Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength _(8, 9) Reinforced Insulation	1MOOP (Means of Operator Protection) Operational Insulation(Consult factory for 1MOPP) 5656 VDC, Primary to Secondary
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Primary to Secondary 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 Operator Protection) Operational Insulation(Consult factory for 1MOPP) 5656 VDC, Primary to Secondary 2121 VDC, Primary to Ground 707 VDC, Secondary to Ground <300µA NC, <1000µA SFC <100µA NC, <500µA SFC
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Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(8, 9) Reinforced Insulation Basic Insulation Operational 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 EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity	1MOOP (Means of Operator Protection) Operational Insulation(Consult factory for 1MOPP) 5656 VDC, Primary to Secondary 2121 VDC, Primary to Ground 707 VDC, Secondary to Ground <300μA NC, <1000μA SFC <100μA NC, <500μA SFC Logic low with input power failure 10 ms minimum prior to output 1 dropping 1%. Isolated. Contact closure inhibits output. Single wire current sharing with return via negative sens return. Minimum current share load is 10% of each mode output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models and mV for remaining models. Isolated 5 Vdc ± 10%, 10 mA available only with Remo Inhibit option. 400mV compensation of output cable losses 100,000 Hours min., MIL-HDBK-217F, 25° C, GB 1.40 Lbs. Open Frame/ 2.15 Lbs. Chassis and Cover IS (IEC 60601-1-2:2014, 4 TH ed./IEC 61000-6-2:200 EN 61000-4-2 ±8KV contact / ±15KV air discharge EN 61000-4-3 80MHz-2.7GHz, 10V/m, 80% AM EN 61000-4-5 ±2 KV line to earth / ±1 KV line to line EN 61000-4-8 30A/m, 60 Hz. EN 61000-4-8 30A/m, 60 Hz. EN 61000-4-1 0% Ur, 0.5 cycles, 0-315° 100/240V 0% Ur, 1 cycles, 0° 100/240V
Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(8, 9) Reinforced Insulation Basic Insulation Operational 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 EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity	1MOOP (Means of Operator Protection) Operational Insulation(Consult factory for 1MOPP) 5656 VDC, Primary to Secondary 2121 VDC, Primary to Ground 707 VDC, Secondary to Ground <300μA NC, <1000μA SFC <100μA NC, <500μA SFC Logic low with input power failure 10 ms minimum prior to output 1 dropping 1%. Isolated. Contact closure inhibits output. Single wire current sharing with return via negative sens return. Minimum current share load is 10% of each mode output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models and mV for remaining models. Isolated 5 Vdc ± 10%, 10 mA available only with Remo Inhibit option. 400mV compensation of output cable losses 100,000 Hours min., MIL-HDBK-217F, 25° C, GB 1.40 Lbs. Open Frame/ 2.15 Lbs. Chassis and Cover IS (IEC 60601-1-2:2014, 4 TH ed./IEC 61000-6-2:200 EN 61000-4-2 ±8KV contact / ±15KV air discharge EN 61000-4-3 80MHz-2.7GHz, 10V/m, 80% AM EN 61000-4-5 ±2 KV line to earth / ±1 KV line to line EN 61000-4-8 30A/m, 60 Hz. EN 61000-4-8 30A/m, 60 Hz. EN 61000-4-8 100/240V 40% Uт, 10/12 cycles, 0° 100/240V
Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength _(8,9) Reinforced Insulation Operational Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal ₍₁₄₎ Remote Inhibit (optional) Load Share (optional) _(16,17,18) Standby Power (optional) _(16,17,18) Standby Power (optional) ₍₁₉₎ Remote Sense ₍₁₉₎ Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity Voltage Dips	1MOOP (Means of Operator Protection) Operational Insulation(Consult factory for 1MOPP) 5656 VDC, Primary to Secondary 2121 VDC, Primary to Ground 707 VDC, Secondary to Ground <300μA NC, <1000μA SFC <100μA NC, <500μA SFC Logic low with input power failure 10 ms minimum prior to output 1 dropping 1%. Isolated. Contact closure inhibits output. Single wire current sharing with return via negative sens return. Minimum current share load is 10% of each mode output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models and mV for remaining models. Isolated 5 Vdc ± 10%, 10 mA available only with Remo Inhibit option. 400mV compensation of output cable losses 100,000 Hours min., MIL-HDBK-217F, 25° C, GB 1.40 Lbs. Open Frame/ 2.15 Lbs. Chassis and Cover IS (IEC 60601-1-2:2014, 4 TH ed /IEC 61000-6-2:200 EN 61000-4-2 ±8KV contact / ±15KV air discharge EN 61000-4-3 80MHz-2.7GHz, 10V/m, 80% AM EN 61000-4-4 ±2 KV, 5KHz/100KHz EN 61000-4-5 ±2 KV line to earth / ±1 KV line to line EN 61000-4-8 30A/m, 60 Hz. EN 61000-4-8 100/240V 40% U _T , 10/12 cycles, 0° 100/240V
Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(8, 9) Reinforced Insulation Basic Insulation Operational 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 EMC SPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity Voltage Dips Voltage Interruptions Radiated Emissions	1MOOP (Means of Operator Protection) Operational Insulation(Consult factory for 1MOPP) 5656 VDC, Primary to Secondary 2121 VDC, Primary to Ground 707 VDC, Secondary to Ground <a href="</td">
Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(8, 9) Reinforced Insulation Basic Insulation Operational 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 EMC SPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Wagnetic Field Immunity Voltage Dips	1MOOP (Means of Operator Protection) Operational Insulation(Consult factory for 1MOPP) 5656 VDC, Primary to Secondary 2121 VDC, Primary to Ground 707 VDC, Secondary to Ground <a href="</td">

NXT-325 SERIES MECHANICAL SPECIFICATIONS



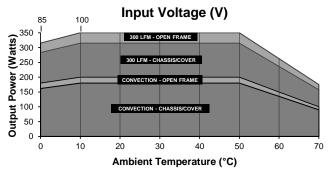
CONNECTOR SPECIFICATIONS



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.
- 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.
- 10. 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.
- 11. 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.
- 19. 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

