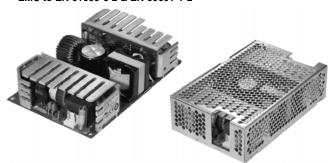
NXT-325 SERIES AC-DC

FEATURES:

- RoHS Compliant
- 2 Year Warranty
- High Efficiency, 85% typical
 High Power Density, 9.3 W / cu in.
 Compact 3.9" x 6.0" 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 S	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 Scheme		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 91 0s	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
TUV	TUV	EN 60950-1/A1:2010 EN 60601-1/A2:1995 EN 60601-1:2006
ϵ		Low Voltage Directive (2006/95/EC of December 2006)

MODEL LISTING

	OPEN	FRAME	CHASS	SIS/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
DI				

Please refer to Output Power Derating chart.

ORDERING INFORMATION

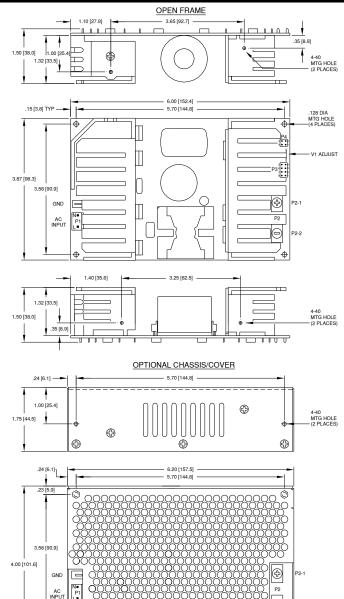
CH - Chassis CO - Cover

LS - Single Wire Load Sharing

All specifications are maximum at 25°C, 325W unless otherwise stated, may vary by model and are subject to change without notice.

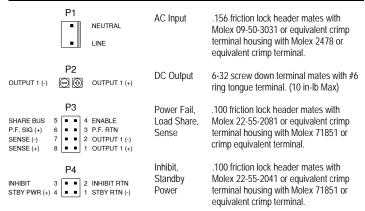
OUTPUT SPECIFICATION	ONS
Output Power at 50°C	100-202W Convection Cooled, Open Frame
(Model Dependant)	163-350W 300 LFM Forced Air, Open Frame
Power Derating	2.0 Wout / 1 Vin below 100 Vin
Voltage Centering	± 0.5% (50% load)
Voltage Adjust Range	95-105%
Load Regulation	0.5% (0-100% load change)
Source Regulation	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 50%
	step load change, 500µS maximum, 4% maximum deviation
Overvoltage Protection	Latching, between 110% and 150% of rated output voltage.
Overpower Protection	110-130% rated Pout, cycle on/off, auto recovery
Hold Up Time	16 mS min., Full Power, 85-264V Input
Start Up Time	3 Seconds, 120V Input
INPUT SPECIFICATION	
Source Voltage	85 – 264 Volts AC
Frequency Range	47 – 63 Hz
Input Protection	
	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)
ENVIRONMENTAL SPE	CIFICATIONS
Ambient Operating	0° C to + 70° C
Temperature Range	Derating: See Power Rating Chart
Thermal Shutdown	Output voltage is inhibited during excessive internal
	temperatures, automatic reset.
Ambient Storage Temp. Range	- 40° C to + 85° C
Operating Relative Humidity Range	
Altitude	10.000 ft ACL Operating/ 40.000 ft ACL Non-apprating
	10,000 ft. ASL Operating/ 40,000 ft. ASL Non-operating
Temperature Coefficient	0.02%/°C
Vibration	2.5g, 10Hz. – 2KHz per MIL-STD-810F Method 514.5
Shock	20g, peak per MIL-STD-810F Method 516.5
GENERAL SPECIFICAT	TIONS
Means of Protection	
Primary to Secondary	2MOPP (Means of Patient Protection
Primary to Ground	1MOOP (Means of Operator Protection)
Secondary to Ground	Operational Insulation(Consult factory for 1MOOP or 1MOPP)
Dielectric Strength(13)	
Reinforced Insulation	5656 VDC, Primary to Secondary, 1 Sec.
Basic Insulation	
Basic Insulation Operational Insulation	2545 VDC, Primary to Ground, 1 Sec.
Operational Insulation	
Operational Insulation Leakage Current	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec.
Operational Insulation Leakage Current Earth Leakage	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC
Operational Insulation Leakage Current Earth Leakage Touch Current	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA SFC
Operational Insulation Leakage Current Earth Leakage	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA SFC Logic low with input power failure 10 ms minimum prior to
Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA SFC Logic low with input power failure 10 ms minimum prior to output 1 dropping 1%.
Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote Inhibit (optional)	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA SFC Logic low with input power failure 10 ms minimum prior to output 1 dropping 1%. Isolated. Contact closure inhibits output.
Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA 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 sense
Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote Inhibit (optional)	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA 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 sense return. Minimum current share load is 10% of each module.
Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote Inhibit (optional)	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA 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 sense return. Minimum current share load is 10% of each module output current rating. Maximum output voltage deviation
Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote Inhibit (optional)	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA 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 sense return. Minimum current share load is 10% of each module output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models and 400
Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote Inhibit (optional) Load Share (optional)	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA 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 sense return. Minimum current share load is 10% of each modules output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models and 400 mV for remaining models.
Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote Inhibit (optional)	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA 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 sense return. Minimum current share load is 10% of each module output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models and 400
Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote Inhibit (optional) Load Share (optional)	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA 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 sense return. Minimum current share load is 10% of each modules output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models and 400 mV for remaining models.
Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote Inhibit (optional) Load Share (optional)	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA 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 sense return. Minimum current share load is 10% of each module output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models and 400 mV for remaining models. Isolated 5 Vdc ± 10%, 10 mA available only with Remote
Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote Inhibit (optional) Load Share (optional) Standby Power (optional)	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA 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 sense return. Minimum current share load is 10% of each modules output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models and 400 mV for remaining models. Isolated 5 Vdc ± 10%, 10 mA available only with Remote Inhibit option.
Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA 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 sense return. Minimum current share load is 10% of each module's output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models and 400 mV for remaining models. Isolated 5 Vdc ± 10%, 10 mA available only with Remote Inhibit option. 400mV compensation of output cable losses 100,000 Hours min., MIL-HDBK-217F, 25° C, GB
Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA 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 sense return. Minimum current share load is 10% of each module's output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models and 400 mV for remaining models. Isolated 5 Vdc ± 10%, 10 mA available only with Remote 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
Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC (1997)	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA 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 sense return. Minimum current share load is 10% of each module's output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models and 400 mV for remaining models. Isolated 5 Vdc ± 10%, 10 mA available only with Remote 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
Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC C Electrostatic Discharge	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA 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 sense return. Minimum current share load is 10% of each module's output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models and 400 mV for remaining models. Isolated 5 Vdc ± 10%, 10 mA available only with Remote 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 COMPATIBILITY SPECIFICATIONS EN 61000-4-2 ±6kV Contact/ ±8kV Air Discharge
Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC C Electrostatic Discharge Radiated Electromagnetic Field	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA 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 sense return. Minimum current share load is 10% of each module's output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models and 400 mV for remaining models. Isolated 5 Vdc ± 10%, 10 mA available only with Remote 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 COMPATIBILITY SPECIFICATIONS EN 61000-4-2 ±6kV Contact/ ±8kV Air Discharge EN 61000-4-3 80-2500MHz, 10V/m, 80% AM
Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC C Electrostatic Discharge Radiated Electromagnetic Field EFT/Bursts	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA 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 sense return. Minimum current share load is 10% of each module's output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models and 400 mV for remaining models. Isolated 5 Vdc ± 10%, 10 mA available only with Remote 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 COMPATIBILITY SPECIFICATIONS EN 61000-4-2 ±6kV Contact/ ±8kV Air Discharge EN 61000-4-3 80-2500MHz, 10V/m, 80% AM EN 61000-4-4 ±2 kV
Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC C Electrostatic Discharge Radiated Electromagnetic Field EFT/Bursts Surges	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA 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 sense return. Minimum current share load is 10% of each module output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models and 400 mV for remaining models. Isolated 5 Vdc ± 10%, 10 mA available only with Remote 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 COMPATIBILITY SPECIFICATIONS EN 61000-4-2 ±6kV Contact/±8kV Air Discharge EN 61000-4-3 80-2500MHz, 10V/m, 80% AM EN 61000-4-5 ±2 kV Line to Earth/±1 kV Line to Line
Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC C Electrostatic Discharge Radiated Electromagnetic Field EFT/Bursts	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA 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 sense return. Minimum current share load is 10% of each module's output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models and 400 mV for remaining models. Isolated 5 Vdc ± 10%, 10 mA available only with Remote 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 COMPATIBILITY SPECIFICATIONS EN 61000-4-2 ±6kV Contact/ ±8kV Air Discharge EN 61000-4-3 80-2500MHz, 10V/m, 80% AM EN 61000-4-4 ±2 kV
Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC C Electrostatic Discharge Radiated Electromagnetic Field EFT/Bursts Surges	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA 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 sense return. Minimum current share load is 10% of each modules output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models and 400 mV for remaining models. Isolated 5 Vdc ± 10%, 10 mA available only with Remote 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 OMIPATIBILITY SPECIFICATIONS EN 61000-4-2 ±6kV Contact/±8kV Air Discharge EN 61000-4-3 80-2500MHz, 10V/m, 80% AM EN 61000-4-5 ±2 kV Line to Earth/±1 kV Line to Line EN 61000-4-6 .15 to 80MHz, 10V, 80% AM
Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC C Electrostatic Discharge Radiated Electromagnetic Field EFT/Bursts Surges Conducted Immunity	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA 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 sense return. Minimum current share load is 10% of each modules output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models and 400 mV for remaining models. Isolated 5 Vdc ± 10%, 10 mA available only with Remote 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 OMIPATIBILITY SPECIFICATIONS EN 61000-4-2 ±6kV Contact/±8kV Air Discharge EN 61000-4-3 80-2500MHz, 10V/m, 80% AM EN 61000-4-5 ±2 kV Line to Earth/±1 kV Line to Line EN 61000-4-6 .15 to 80MHz, 10V, 80% AM
Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC C Electrostatic Discharge Radiated Electromagnetic Field EFT/Bursts Surges Conducted Immunity Magnetic Field Immunity	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA 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 sense return. Minimum current share load is 10% of each modules output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models and 400 mV for remaining models. Isolated 5 Vdc ± 10%, 10 mA available only with Remote 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 COMPATIBILITY SPECIFICATIONS EN 61000-4-3 80-2500MHz, 10V/m, 80% AM EN 61000-4-5 ±2 kV Line to Earth/±1 kV Line to Line EN 61000-4-6 .15 to 80MHz, 10V, 80% AM EN 61000-4-8 80-8500 Hz. EN 61000-4-8 30A/m, 50/60 Hz. EN 61000-4-11 95% Dip, 10ms
Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC C Electrostatic Discharge Radiated Electromagnetic Field EFT/Bursts Surges Conducted Immunity Magnetic Field Immunity	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA 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 sense return. Minimum current share load is 10% of each module's output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models and 400 mV for remaining models. Isolated 5 Vdc ± 10%, 10 mA available only with Remote 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 COMPATIBILITY SPECIFICATIONS EN 61000-4-2 ±6kV Contact/ ±8kV Air Discharge EN 61000-4-3 80-2500MHz, 10V/m, 80% AM EN 61000-4-6 .15 to 80MHz, 10V, 80% AM EN 61000-4-8 30A/m, 50/60 Hz. EN 61000-4-11 95% Dip, 10ms 30% Dip, 500ms
Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC C Electrostatic Discharge Radiated Electromagnetic Field EFT/Bursts Surges Conducted Immunity Magnetic Field Immunity Voltage Dips	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA SFC <100uA NC, <500uA SFC <indicate 1="" 200<="" <indicate="" ground,="" sec.="" secondary="" td="" the="" to=""></indicate>
Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC C Electrostatic Discharge Radiated Electromagnetic Field EFT/Bursts Surges Conducted Immunity Magnetic Field Immunity Voltage Dips	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA SFC <100uA NC, <500uA SFC <indicate (sec.)="" 1="" 200ua="" <100ua="" <500ua="" <indicate="" ground="" ground,="" nc,="" nc.="" sec.="" sec<="" secondary="" sfc="" td="" the="" to=""></indicate>
Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC C Electrostatic Discharge Radiated Electromagnetic Field EFT/Bursts Surges Conducted Immunity Magnetic Field Immunity Voltage Dips	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA 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 sense return. Minimum current share load is 10% of each module output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models and 400 mV for remaining models. Isolated 5 Vdc ± 10%, 10 mA available only with Remote 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 COMPATIBILITY SPECIFICATIONS EN 61000-4-2 ±6kV Contact/±8kV Air Discharge EN 61000-4-2 ±5kV Contact/±8kV Air Discharge EN 61000-4-4 ±2 kV EN 61000-4-5 ±2 kV Line to Earth/±1 kV Line to Line EN 61000-4-6 .15 to 80MHz, 10V, 80% AM EN 61000-4-8 30A/m, 50/60 Hz. EN 61000-4-11 95% Dip, 10ms 30% Dip, 500ms 60% Reduction, 1s (Criteria B) EN 61000-4-11 95% Reduction, 5s EN 55011/22, Class B
Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC C Electrostatic Discharge Radiated Electromagnetic Field EFT/Bursts Surges Conducted Immunity Magnetic Field Immunity Voltage Dips Voltage Interruptions Radiated Emissions	2545 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. <300uA NC, <1000uA SFC <100uA NC, <500uA 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 sense return. Minimum current share load is 10% of each modules output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models and 400 mV for remaining models. Isolated 5 Vdc ± 10%, 10 mA available only with Remote 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 OMIPATIBILITY SPECIFICATIONS EN 61000-4-2 ±6kV Contact/±8kV Air Discharge EN 61000-4-3 80-2500MHz, 10V/m, 80% AM EN 61000-4-5 ±2 kV Line to Earth/±1 kV Line to Line EN 61000-4-6 .15 to 80MHz, 10V, 80% AM EN 61000-4-1 95% Dip, 10ms 30% Dip, 500ms 60% Reduction, 1s (Criteria B) EN 61000-4-11 95% Reduction, 5s EN 55011/22, Class B
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NXT-325 SERIES MECHANICAL SPECIFICATIONS



ALL DIMENSIONS IN INCHES (MM)

CONNECTOR SPECIFICATIONS



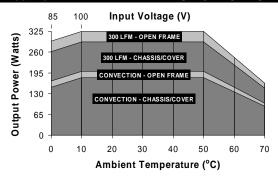
Ground

.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 of airflow must be maintained one inch above the top of the heatsinks in any direction in open frame forced air applications.
- 300 linear feet per minute of airflow must be maintained one inch above and toward any of the three perforated sides of the cover in forced air chassis/cover applications.
- 4. 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.
- 5. 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.
- 7. 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.
- 10. 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.
- 11. 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.
- 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.
- 13. 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.
- 14. 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.
- 15. Maximum screw penetration into bottom chassis mounting holes is .100 inches.
- 16. Maximum screw penetration into side chassis mounting holes is .250 inches.
- 17. To comply with emissions specifications, all four mounting hole pads must be electrically connected to a common metal chassis. Chassis/cover option recommended.

MAX Pout vs. AMBIENT TEMPERATURE/INPUT VOLTAGE



Derating requirements – Chart above applies to models 1003 thru 1008 only. 325 Watts 300 LFM forced air, open frame. 200 Watts convection cooled open frame. Derate 10% with chassis and cover. Derate 1.5 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

