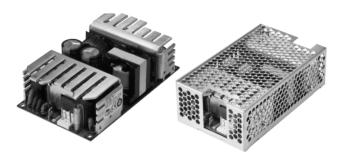
225 WATTS

NXT-225 SERIES AC-DC

FEATURES:

- RoHS Compliant
- 2 Year Warranty
- High Efficiency, 85% typical
- High Power Density, 10.0 W / cu in.
- Compact 3.0" x 5.0" 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 FL us	Underwriters Laboratories File E137708/E140259	UL 60950-1 2 nd Edition, 2007 UL 60601-1 1 st Edition, 2006 AAMI/ANSI 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 711 us	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/A12:2011 EN 60601-1/A2:1995 EN 60601-1:2006		
CE	Low Voltage Directive RoHS Directive (Recast)	(2006/95/EC of December 2006) (2011/65/EU of June 2011)		
MODEL LISTING				

OPEN FRAME CHASSIS/COVER CONVECTION CONVECTION **MODEL** 300 LFM 300 LFM COOLED 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/13.5A 15V/9.0A 15V/10.0A NXT-225-1006 24V/9.4A 24V/6.3A 24V/8.5A 24V/5.7A 28V/8.0A 28V/7.2A 28V/4.9A NXT-225-1007 28V/5.4A NXT-225-1008 48V/4.7A 48V/3.1A 48V/4.2A 48V/2.8A

Please refer to Output Power Derating chart.

ORDERING INFORMATION

Please specify the following optional features when ordering:

CH - Chassis LSEVB - Load Share Evaluation Board

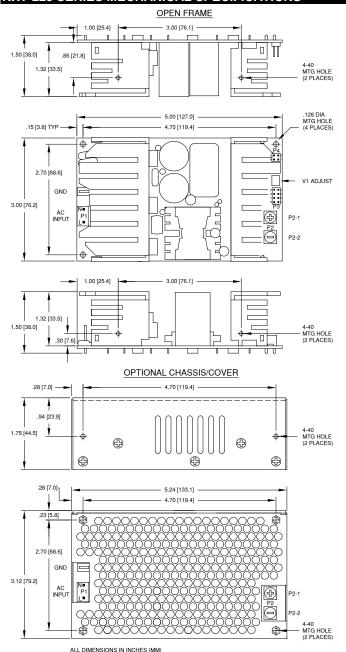
CO - Cover RE - Remote Inhibit

LS - Single Wire Load Sharing

All specifications are maximum at 25°C, 225W unless otherwise stated, may vary by model and are subject to change without notice.

OUTPUT SPECIFICA		Convertion C. 1.1.C. 5
Output Power at 50°C	150W 225W	Convection Cooled, Open Frame
Power Derating	225W 1.5 Wout / 1 Vin	300 LFM Forced Air, Open Frame
Voltage Centering	± 0.5%	(50% load)
Voltage Adjust Range	95-105%	(5000)
Load Regulation	0.5%	(0-100% load change)
Source Regulation	0.5%	
Noise	1.0% or 100mV	Whichever is greater
Turn on Overshoot Transient Response	None Output recovers	to within 1% of initial set point due
Transient Response	to a 50% step lo	ad change, 500µS maximum,
Overvoltage Protection	4% maximum de	eviation. en 110% and 150% of rated output voltage.
Overpower Protection		Pout, cycle on/off, auto recovery
Hold Up Time		Power, 85-264V Input
Start Up Time	3 Seconds, 120	
INPUT SPECIFICATION	ONS	
Source Voltage	85 – 264 Volts A	.C
Frequency Range	47 – 63 Hz	
Input Protection Peak Inrush Current	Internal 5A Time 50A (cold)	Delay fuse
Efficiency		Il Power varies by model
Power Factor	0.95 (Full Power	, 230V), 0.98 (Full Power, 120V)
ENVIRONMENTAL S		
Ambient Operating	0° C to + 70° C	
Temperature Range	Derating: See P	ower Rating Chart
Ambient Storage Temp. Range	- 40° C to + 85°	
Operating Relative Humidity Rang Altitude		
Temperature Coefficient	0.02%/°C	Operating/ 40,000 ft. ALS Non-Operating
Vibration		Hz per MIL-STD-810F Method 516.5
Shock	20g, peak per M	IL-STD-810F Method 516.5
GENERAL SPECIFIC	ATIONS	
Means of Protection		
Primary to Secondary		of Patient Protection)
Primary to Ground		of Operator Protection)
Secondary to Ground Dielectric Strength(13)	Operationalinsu	lation(Consult factory for 1MOOP or 1MOPF
Reinforced Insulation	5656 VDC. Prim	ary to Secondary, 1 Sec.
Basic Insulation	2545 VDC, Prim	ary to Ground, 1 Sec.
Operational Insulation	707 VDC, Secon	ndary to Ground, 1 Sec.
Leakage Current	-200A N.C10	000A CEC
Earth Leakage Touch Current	<300uA NC, <10 <100uA NC, <50	
	Lagia law with in	put power failure 10 ms minimum
Power Fail Signal	LOGIC: IOW WITH IF	
Power Fail Signal		dropping 1%.
Remote Inhibit (optional)	prior to output 1 Isolated. Contac	t closure inhibits output.
	prior to output 1 Isolated. Contac Single wire curre	t closure inhibits output. ent sharing with return via negative
Remote Inhibit (optional)	prior to output 1 Isolated. Contact Single wire curre sense return. Mi	t closure inhibits output. ent sharing with return via negative nimum current share load is 10% of
Remote Inhibit (optional)	prior to output 1 Isolated. Contact Single wire curre sense return. Mi each module's c	t closure inhibits output. ent sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output
Remote Inhibit (optional)	prior to output 1 Isolated. Contact Single wire curre sense return. Mi each module's c voltage deviation	t closure inhibits output. ent sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output n between modules is 5% for 2.5 through 5
Remote Inhibit (optional)	prior to output 1 Isolated. Contact Single wire curre sense return. Mi each module's of voltage deviation V models and 40	t closure inhibits output. ent sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output
Remote Inhibit (optional) Load Share (optional)	prior to output 1 Isolated. Contact Single wire curre sense return. Mi each module's c voltage deviation V models and 40 Isolated 5 Vdc Inhibit option.	t closure inhibits output. ent sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output n between modules is 5% for 2.5 through 5 00 mV for remaining models. ± 10%, 10 mA available only with Remote
Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense	prior to output 1 Isolated. Contact Single wire curre sense return. Mi each module's c voltage deviatio V models and 40 Isolated 5 Vdc Inhibit option. 400mV compen:	t closure inhibits output. ent sharing with return via negative nimum current share load is 10% of ulput current rating. Maximum output n between modules is 5% for 2.5 through 5 00 mV for remaining models. ± 10%, 10 mA available only with Remote sation of output cable losses
Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures	prior to output 1 Isolated. Contact Single wire curre sense return. Mi each module's c voltage deviation V models and 40 Isolated 5 Vdc Inhibit option. 400mV compen: 100,000 Hours r	t closure inhibits output. ent sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output n between modules is 5% for 2.5 through 5 00 mV for remaining models. ± 10%, 10 mA available only with Remote sation of output cable losses nin., MIL-HDBK-217F, 25° C, GB
Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight	prior to output 1 Isolated. Contact Single wire curre sense return. Mi each module's of voltage deviation V models and 40 Isolated 5 Vdc Inhibit option. 400mV compen: 100,000 Hours r 0.98 Lbs. Open	t closure inhibits output. ent sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output n between modules is 5% for 2.5 through 5 00 mV for remaining models. ± 10%, 10 mA available only with Remote sation of output cable losses nin., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover
Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC	prior to output 1 Isolated. Contact Single wire curre sense return. Mi each module's c voltage deviation V models and 4t Isolated 5 Vdc Inhibit option. 400mV compen: 100,000 Hours r 0.98 Lbs. Open	t closure inhibits output. ent sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output n between modules is 5% for 2.5 through 5 00 mV for remaining models. ± 10%, 10 mA available only with Remote sation of output cable losses nin., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover BILITY SPECIFICATIONS
Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC Electrostatic Discharge	prior to output 1 Isolated. Contact Single wire curre sense return. Mi each module's c voltage deviation V models and 40 Isolated 5 Vdc Inhibit option. 400mV compen: 100,000 Hours n 0.98 Lbs. Open COMPATIL EN 61000-4-2	t closure inhibits output. ent sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output n between modules is 5% for 2.5 through 5 00 mV for remaining models. ± 10%, 10 mA available only with Remote sation of output cable losses nin., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover BILITY SPECIFICATIONS ± 6kV Contact/ ± 8kV Air Discharge
Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC Electrostatic Discharge Radiated Electromagnetic Field	prior to output 1 Isolated. Contact Single wire curre sense return. Mi each module's c voltage deviation V models and 40 Isolated 5 Vdc Inhibit option. 400mV compen: 100,000 Hours r 0.98 Lbs. Open COMPATII EN 61000-4-2 EN 61000-4-3	t closure inhibits output. ent sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output n between modules is 5% for 2.5 through 5 00 mV for remaining models. ± 10%, 10 mA available only with Remote sation of output cable losses nin., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover BILITY SPECIFICATIONS ± 6kV Contact/ ± 8kV Air Discharge 80-2500MHz, 10V/m, 80% AM
Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC Electrostatic Discharge Radiated Electromagnetic Field EFT/Bursts	prior to output 1 Isolated. Contact Single wire curre sense return. Mie each module's c voltage deviation V models and 40 Isolated 5 Vdc Inhibit option. 400mV compen: 100,000 Hours r 0.98 Lbs. Open COMPATII EN 61000-4-2 EN 61000-4-3 EN 61000-4-4	t closure inhibits output. ent sharing with return via negative nimum current share load is 10% of ulput current rating. Maximum output n between modules is 5% for 2.5 through 5 00 mV for remaining models. ± 10%, 10 mA available only with Remote sation of output cable losses nin., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover BILITY SPECIFICATIONS ± 6kV Contact/ ± 8kV Air Discharge 80-2500MHz, 10V/m, 80% AM ± 2 kV
Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC Electrostatic Discharge Radiated Electromagnetic Field EFT/Bursts Surges	prior to output 1 Isolated. Contact Single wire curre sense return. Mi each module's c voltage deviation V models and 40 Isolated 5 Vdc Inhibit option. 400mV compen: 100,000 Hours r 0.98 Lbs. Open COMPATII EN 61000-4-2 EN 61000-4-3	t closure inhibits output. ent sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output n between modules is 5% for 2.5 through 5 00 mV for remaining models. ± 10%, 10 mA available only with Remote sation of output cable losses nin., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover BILITY SPECIFICATIONS ± 6kV Contact/ ± 8kV Air Discharge 80-2500MHz, 10V/m, 80% AM ± 2 kV
Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC Electrostatic Discharge Radiated Electromagnetic Field EFT/Bursts Surges Conducted Immunity Magnetic Field Immunity	prior to output 1 Isolated. Contact Single wire curre sense return. Mie each module's c voltage deviation V models and 40 Isolated 5 Vdc Inhibit option. 400mV compen: 100,000 Hours r 0.98 Lbs. Open COMPATIE EN 61000-4-2 EN 61000-4-4 EN 61000-4-5	t closure inhibits output. ent sharing with return via negative nimum current share load is 10% of uitput current rating. Maximum output n between modules is 5% for 2.5 through 5 00 mV for remaining models. ± 10%, 10 mA available only with Remote sation of output cable losses nin., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover 3ILITY SPECIFICATIONS ± 6kV Contact/± 8kV Air Discharge 80-2500MHz, 10V/m, 80% AM ± 2 kV ± 2 kV Line to Earth/± 1 kV Line to Line
Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC Electrostatic Discharge Radiated Electromagnetic Field EFT/Bursls Surges Conducted Immunity	prior to output 1 Isolated. Contact Single wire curre sense return. Mie each module's c voltage deviation V models and 40 Isolated 5 Vdc Inhibit option. 400mV compen: 100,000 Horus or 0.98 Lbs. Open COMIPATII EN 61000-4-2 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6	t closure inhibits output. ent sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output n between modules is 5% for 2.5 through 5 00 mV for remaining models. ± 10%, 10 mA available only with Remote sation of output cable losses nin., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover BILITY SPECIFICATIONS ± 6kV Contact/± 8kV Air Discharge 80-2500MHz, 10V/m, 80% AM ± 2 kV Line to Earth/± 1 kV Line to Line .15 to 80MHz, 10V, 80% AM 30A/m, 50/60 Hz. 95% Dip, 10ms
Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC Electrostatic Discharge Radiated Electromagnetic Field EFT/Bursts Surges Conducted Immunity Magnetic Field Immunity	prior to output 1 Isolated. Contact Single wire curre sense return. Mi each module's c voltage deviation V models and 4t Isolated 5 Vdc Inhibit option. 400mV compen: 100,000 Hours r 0.98 Lbs. Open COMIPATII EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8	t closure inhibits output. ent sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output n between modules is 5% for 2.5 through 5 00 mV for remaining models. ± 10%, 10 mA available only with Remote sation of output cable losses nin., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover BILITY SPECIFICATIONS ± 6kV Contact/ ± 8kV Air Discharge 80-2500MHz, 10V/m, 80% AM ± 2 kV ± 2 kV Line to Earth/ ± 1 kV Line to Line .15 to 80MHz, 10V, 80% AM 30A/m, 50/60 Hz. 95% Dip, 10ms 30% Dip, 500ms
Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC Electrostatic Discharge Radiated Electromagnetic Field EFT/Bursts Surges Conducted Immunity Magnetic Field Immunity Voltage Dips	prior to output 1 Isolated. Contact Single wire curre sense return. Mi each module's c voltage deviation V models and 4t Isolated 5 Vdc Inhibit option. 400mV compen: 100,000 Hours r 0.98 Lbs. Open COMIPATII EN 61000-4-2 EN 61000-4-2 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 EN 61000-4-11	t closure inhibits output. ent sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output n between modules is 5% for 2.5 through 5 00 mV for remaining models. ± 10%, 10 mA available only with Remote sation of output cable losses nin., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover BILITY SPECIFICATIONS ± 6kV Contact/ ± 8kV Air Discharge 80-2500MHz, 10V/m, 80% AM ± 2 kV ± 2 kV Line to Earth/ ± 1 kV Line to Line .15 to 80MHz, 10V, 80% AM 30A/m, 50/60 Hz. 95% Dip, 10ms 30% Dip, 500ms 60% Reduction, 1s (Criteria B)
Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC Electrostatic Discharge Radiated Electromagnetic Field EFT/Bursts Surges Conducted Immunity Magnetic Field Immunity Voltage Dips Voltage Interruptions	prior to output 1 Isolated. Contact Single wire curresense return. Wie each module's ovoltage deviation V models and 4t Isolated 5 Vdc Inhibit option. 400mV compen: 100,000 Hours r 0.98 Lbs. Open EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-5 EN 61000-4-8 EN 61000-4-11	t closure inhibits output. ent sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output n between modules is 5% for 2.5 through 5 00 mV for remaining models. ± 10%, 10 mA available only with Remote sation of output cable losses nin., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover BILITY SPECIFICATIONS ± 6kV Contact/ ± 8kV Air Discharge 80-2500MHz, 10V/m, 80% AM ± 2 kV ± 2 kV Line to Earth/ ± 1 kV Line to Line .15 to 80MHz, 10V, 80% AM 30A/m, 50/60 Hz. 95% Dip, 10ms 30% Dip, 500ms 60% Reduction, 1s (Criteria B)
Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC Electrostatic Discharge Radiated Electromagnetic Field EFT/Bursts Surges Conducted Immunity Magnetic Field Immunity Voltage Dips	prior to output 1 Isolated. Contact Single wire curre sense return. Mie each module's c voltage deviation V models and 40 Isolated 5 Vdc Inhibit option. 400mV compen: 100,000 Hours r 0.98 Lbs. Open COMPATIE EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-11 EN 55011/22,	t closure inhibits output. ent sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output n between modules is 5% for 2.5 through 5 00 mV for remaining models. ± 10%, 10 mA available only with Remote sation of output cable losses nin., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover BILITY SPECIFICATIONS ± 6kV Contact/ ± 8kV Air Discharge 80-2500MHz, 10V/m, 80% AM ± 2 kV ± 2 kV Line to Earth/ ± 1 kV Line to Line .15 to 80MHz, 10V, 80% AM 30A/m, 50/60 Hz. 95% Dip, 10ms 30% Dip, 500ms 60% Reduction, 1s (Criteria B)
Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC Electrostatic Discharge Radiated Electromagnetic Field EFT/Bursts Surges Conducted Immunity Magnetic Field Immunity Voltage Dips Voltage Interruptions Radiated Emissions	prior to output 1 Isolated. Contact Single wire curre sense return. Mie each module's c voltage deviation V models and 40 Isolated 5 Vdc Inhibit option. 400mV compen: 100,000 Hours r 0.98 Lbs. Open COMIPATII EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-5 EN 61000-4-11 EN 61000-4-11 EN 55011/22, FCC Part 15	t closure inhibits output. ent sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output n between modules is 5% for 2.5 through 5 10 mV for remaining models. ± 10%, 10 mA available only with Remote sation of output cable losses nim., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover BILITY SPECIFICATIONS ± 6kV Contact/± 8kV Air Discharge 80-2500MHz, 10V/m, 80% AM ± 2 kV ± 2 kV Line to Earth/± 1 kV Line to Line .15 to 80MHz, 10V, 80% AM 30A/m, 50/60 Hz. 95% Dip, 10ms 30% Dip, 500ms 60% Reduction, 1s (Criteria B) 95% Reduction, 5s Class B
Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC Electrostatic Discharge Radiated Electromagnetic Field EFT/Bursts Surges Conducted Immunity Magnetic Field Immunity Voltage Dips Voltage Interruptions	prior to output 1 Isolated. Contact Single wire curre sense return. Mi each module's c voltage deviation V models and 4t Isolated 5 Vdc Inhibit option. 400mV compen: 100,000 Hours r 0.98 Lbs. Open COMIPATII EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-11 EN 61000-4-11 EN 61000-4-11 EN 65011/22, FCC Part 15 EN 55011/22,	t closure inhibits output. ent sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output n between modules is 5% for 2.5 through 5 00 mV for remaining models. ± 10%, 10 mA available only with Remote sation of output cable losses nin., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover BILITY SPECIFICATIONS ± 6kV Contact/ ± 8kV Air Discharge 80-2500MHz, 10V/m, 80% AM ± 2 kV ± 2 kV Line to Earth/ ± 1 kV Line to Line .15 to 80MHz, 10V, 80% AM 30A/m, 50/60 Hz. 95% Dip, 10ms 30% Dip, 500ms 60% Reduction, 1s (Criteria B)
Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC Electrostatic Discharge Radiated Electromagnetic Field EFT/Bursts Surges Conducted Immunity Magnetic Field Immunity Voltage Dips Voltage Interruptions Radiated Emissions	prior to output 1 Isolated. Contact Single wire curre sense return. Mie each module's c voltage deviation V models and 40 Isolated 5 Vdc Inhibit option. 400mV compen: 100,000 Hours r 0.98 Lbs. Open COMIPATII EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-5 EN 61000-4-11 EN 61000-4-11 EN 55011/22, FCC Part 15	t closure inhibits output. ent sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output n between modules is 5% for 2.5 through 5 10 mV for remaining models. ± 10%, 10 mA available only with Remote sation of output cable losses nim., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover BILITY SPECIFICATIONS ± 6kV Contact/± 8kV Air Discharge 80-2500MHz, 10V/m, 80% AM ± 2 kV ± 2 kV Line to Earth/± 1 kV Line to Line .15 to 80MHz, 10V, 80% AM 30A/m, 50/60 Hz. 95% Dip, 10ms 30% Dip, 500ms 60% Reduction, 1s (Criteria B) 95% Reduction, 5s Class B
Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC Electrostatic Discharge Radiated Electromagnetic Field EFT/Bursts Surges Conducted Immunity Magnetic Field Immunity Voltage Dips Voltage Interruptions Radiated Emissions Conducted Emissions Harmonic Current Emissions Power Factor	prior to output 1 Isolated. Contact Single wire curre sense return. Mi each module's c voltage deviation V models and 4t Isolated 5 Vdc Inhibit option. 400mV compen: 100,000 Hours r 0.98 Lbs. Open COMPATII EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-5 EN 61000-4-11 EN 55011/22, FCC Part 15 EN 65000-3-2 EN 61000-3-2 EN 61000-3-2 EN 61000-3-2	t closure inhibits output. ent sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output n between modules is 5% for 2.5 through 5 00 mV for remaining models. ± 10%, 10 mA available only with Remote sation of output cable losses nin., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover BILITY SPECIFICATIONS ± 6kV Contact/ ± 8kV Air Discharge 80-2500MHz, 10V/m, 80% AM ± 2 kV ± 2 kV Line to Earth/ ± 1 kV Line to Line .15 to 80MHz, 10V, 80% AM 30A/m, 50/60 Hz. 95% Dip, 10ms 30% Dip, 500ms 60% Reduction, 1s (Criteria B) 95% Reduction, 5s Class B Class B Compliance Compliance
Remote Inhibit (optional) Load Share (optional) Standby Power (optional) Remote Sense Mean-Time Between Failures Weight ELECTROMAGNETIC Electrostatic Discharge Radiated Electromagnetic Field EFT/Bursts Surges Conducted Immunity Magnetic Field Immunity Voltage Dips Voltage Interruptions Radiated Emissions Conducted Emissions Harmonic Current Emissions	prior to output 1 Isolated. Contact Single wire curre sense return. Mi each module's c voltage deviation V models and 4t Isolated 5 Vdc Inhibit option. 400mV compent 100,000 Hours in 0.98 Lbs. Open EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-5 EN 61000-4-11 EN 55011/22, FCC Part 15 EN 65000-3-2	t closure inhibits output. ent sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output n between modules is 5% for 2.5 through 5 00 mV for remaining models. ± 10%, 10 mA available only with Remote sation of output cable losses nin., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover BILITY SPECIFICATIONS ± 6kV Contact/± 8kV Air Discharge 80-2500MHz, 10V/m, 80% AM ± 2 kV ± 2 kV Line to Earth/± 1 kV Line to Line 1.15 to 80MHz, 10V, 80% AM 30A/m, 50/60 Hz. 95% Dip, 10ms 30% Dip, 500ms 60% Reduction, 1s (Criteria B) 95% Reduction, 5s Class B Class B Compliance

NXT-225 SERIES MECHANICAL SPECIFICATIONS



CONNECTOR SPECIFICATIONS

P1 NEUTRAL LINE	AC Input	.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 (-) ☐ ⊕ OUTPUT 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 4 ENABLE 3 P.F. RTN 2 OUTPUT 1 (-) 1 OUTPUT 1 (+)	Power Fail, Load Share, Sense	.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 2 INHIBIT RTN 1 STBY PTN (-)	Inhibit, Standby Power	.100 friction lock header mates with Molex 22-55-2041 or equivalent crimp terminal housing with Molex 71851 or equivalent crimp terminal.

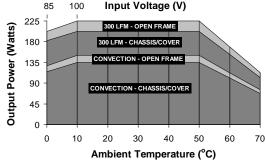
Ground

.187 guick 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.
- 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.
- 12. 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 .188 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. 225 Watts 300 LFM forced air, open frame. 150 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

