175 WATTS

SINGLE OUTPUT AC-DC

FEATURES:

- Compact 3.0" x 5.0" x 1.25" Size IEC 60601-1 3rd ed. Medical Cert.
- 3 Year Warranty
- Universal 85-264V Input
- Single High Efficiency Output
- Power Fail Warning
- 0-70°C Operating Temperature
- RoHS Compliant
- IEC 60601-1-2 4th ed. EMC
 Class B Emissions per EN55011/32
- Optional Single Wire Load Sharing

• IEC 62368-1 2nd ed. Certification

- Optional Remote Inhibit/Enable
- Optional Chassis/Cover





CHASSIS/COVER

OPEN FRAME

SAFETY SPECIFICATIONS

c 911 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		
IECEE	CB Reports/Certificates (including a National and Group Deviations)	II IEC 62368-1:2014, 2nd Edition IEC 60601-1:2005/A1:2012/A2:2020		
	TUV SUD America	EN 62368-1:2014, 2nd Edition EN 60601-1:2006/A1:2013/A2:2021		
(6	Low Voltage Directive RoHS Directive (Recast)	(2014/35/EU of February 2014) (2015/863/EU of March 2015)		
UK	Electrical Equipment (Safety) Regulations 2016 SI No. 1101			
ČÀ	Restriction of the Use of Certain Hazardous Substances in EEE Regulations 2012 SI No. 3032 + 2019 SI No.492			

MODEL LISTING

OPEN FRAME		CHASSIS/COVER		
MODEL	300 LFM	CONVECTION COOLED	300 LFM	CONVECTION COOLED
NXT-175-1001	2.5V/35.0A	2.5V/23.0A	2.5V/31.5A	2.5V/20.7A
NXT-175-1002	3.3V/35.0A	3.3V/23.0A	3.3V/31.5A	3.3V/20.7A
NXT-175-1003	5V/35.0A	5V/23.0A	5V/31.5A	5V/20.7A
NXT-175-1004	12V/14.6A	12V/9.6A	12V/13.1A	12V/8.6A
NXT-175-1005	15V/11.7A	15V/7.7A	15V/10.5A	15V/6.9A
NXT-175-1006	24V/7.3A	24V/4.8A	24V/6.6A	24V/4.3A
NXT-175-1007	28V/6.3A	28V/4.1A	28V/5.6A	28V/3.7A
NXT-175-1008	48V/3.6A	48V/2.4A	48V/3.2A	48V/2.2A

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

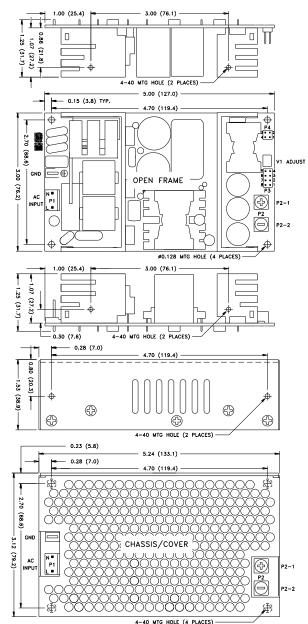
All specifications are maximum at 25° C/175W unless otherwise stated, may vary by model and are subject to change without notice.

NXT-175 TPUT SPECIFICATIONS

	UT SPECIFI	
Output Power at 50°C(1)	115W	Convection Cooled, Open Frame
(See Derating Chart)	175W	300 LFM Forced-Air Cooled(15)
Power Derating	1.0 WOUT / 1 VIN B	
Voltage Centering	$\pm 0.5\%$	(50% load)
Voltage Adjust Range	95-105%	
Load Regulation	0.5%	(0-100% load change)
Source Regulation Noise	1.0% or 100mV	Whichever is greater
Turn on Overshoot	None	
Transient Response		o within 1% of initial set point due
		d change, 500µS maximum,
Overvoltage Protection	4% maximum dev	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	Input
	T SPECIFIC	CATIONS
Protection Class		
Source Voltage	85 - 264 Volts A0	<u>}</u>
Frequency Range Input Protection(6)	47 – 63 Hz Internal 5A Time	Delay fuse
Peak Inrush Current	50A (cold)	Delay luse
Efficiency	85% Typical, Full	Power varies by model
Power Factor	0.95 (Full Power,	230V), 0.98 (Full Power, 120V)
		ECIFICATIONS
Ambient Operating	0°C to + 70°C	(100% load)
Temperature Range Ambient Storage Temp. Range	Derating: See Por - 40°C to + 85°C	wer Rating Chart
Operating Relative Humidity Range	20-90% non-conc	lensing
	3,000m ASL – Op	perating
Altitude	12,192m ASL - N	Ion-Operating
Temperature Coefficient	0.02%/°C	
Vibration	2.5g, 10Hz2KH	z per MIL-STD-810F Method 516.5
Shock		-STD-810F Method 516.5
Means of Protection	RAL SPECIE	ICATIONS
Primary to Secondary	2MOPP (Means c	of Patient Protection)
Primary to Secondary Primary to Ground		of Patient Protection) of Operator Protection)
Primary to Ground Secondary to Ground	1MOOP (Means of	
Primary to Ground Secondary to Ground Dielectric Strength _(8, 9)	1MOOP (Means of Operational Insula	of Operator Protection) ation(Consult factory for 1MOPP)
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 of Operational Insula	of Operator Protection) ation(Consult factory for 1MOPP) ry to Secondary ry to Ground
Primary to Ground Secondary to Ground Dielectric Strength _(8, 9) Reinforced Insulation Basic Insulation Operational Insulation Leakage Current	1MOOP (Means of Operational Insula 5656 VDC, Prima 2121 VDC, Prima 707 VDC, Secor	of Operator Protection) ation(Consult factory for 1MOPP) ry to Secondary ry to Ground adary to Ground
Primary to Ground Secondary to Ground Dielectric Strength _(8, 9) Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage	1MOOP (Means of Operational Insula 5656 VDC, Prima 2121 VDC, Prima 707 VDC, Secor <300µA NC, <100	of Operator Protection) ation(Consult factory for 1MOPP) ry to Secondary ry to Ground ndary to Ground 00µA SFC
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, Secor <300µA NC, <10 <100µA NC, <50	of Operator Protection) ation(Consult factory for 1MOPP) ry to Secondary ry to Ground adary to Ground 200µA SFC 0µA SFC
Primary to Ground Secondary to Ground Dielectric Strength _(8, 9) Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage	1MOOP (Means of Operational Insula 5656 VDC, Prima 2121 VDC, Prima 707 VDC, Secor <300µA NC, <100 <100µA NC, <500 Logic Iow with inp	of Operator Protection) ation(Consult factory for 1MOPP) ry to Secondary ry to Ground adary to Ground 00µA SFC 0µA SFC 0µA SFC 10µA spc 10 ms minimum
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, Secor <300µA NC, <100 <100µA NC, <500 Logic low with inp prior to output 1 d	of Operator Protection) ation(Consult factory for 1MOPP) ry to Secondary ry to Ground adary to Ground 00µA SFC 0µA SFC 0µA SFC 10µA spc 10 ms minimum
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₎	1MOOP (Means o Operational Insula 5656 VDC, Prima 2121 VDC, Prima 707 VDC, Secor <300µA NC, <10 <100µA NC, <50 Logic low with inp prior to output 1 of Isolated. Contact Single wire currer	of Operator Protection) tion(Consult factory for 1MOPP) ry to Secondary ry to Ground objective
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)	1MOOP (Means of Operational Insula 5656 VDC, Prima 2121 VDC, Prima 707 VDC, Secor <300µA NC, <100 <100µA NC, <500 Logic low with ing prior to output 1 of Isolated. Contact Single wire currer sense return. Min	of Operator Protection) tion(Consult factory for 1MOPP) ry to Secondary ry to Ground dary to Ground 00µA SFC 0µA SFC 0µA SFC ut power failure 10 ms minimum lropping 1%. closure inhibits output. t sharing with return via negative imum current share load is 10% of
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)	1MOOP (Means of Operational Insula 5656 VDC, Prima 2121 VDC, Prima 707 VDC, Secor <300µA NC, <100 <100µA NC, <500 Logic low with inp prior to output 1 d Isolated. Contact Single wire currer sense return. Min each module's ou	of Operator Protection) tion(Consult factory for 1MOPP) ry to Secondary ry to Ground odary to Ground 00μA SFC 0μA SFC 0μA SFC ut power failure 10 ms minimum lropping 1%. closure inhibits output. t sharing with return via negative imum current share load is 10% of tput current rating. Maximum output
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)	1MOOP (Means of Operational Insula 5656 VDC, Prima 2121 VDC, Prima 707 VDC, Secor <300µA NC, <100 <100µA NC, <500 Logic low with inp prior to output 1 d Isolated. Contact Single wire currer sense return. Min each module's ou voltage deviation	of Operator Protection) tion(Consult factory for 1MOPP) ry to Secondary ry to Ground dary to Ground 00µA SFC 0µA SFC 0µA SFC ut power failure 10 ms minimum lropping 1%. closure inhibits output. t sharing with return via negative imum current share load is 10% of
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)	1MOOP (Means of Operational Insula 5656 VDC, Prima 2121 VDC, Prima 707 VDC, Secor <300µA NC, <100 <100µA NC, <500 Logic low with inp prior to output 1 of Isolated. Contact Single wire curre sense return. Min each module's ou voltage deviation V models and 400	of Operator Protection) ation(Consult factory for 1MOPP) ry to Secondary ry to Ground ndary to Ground 00μA SFC 0μA SFC 0μ
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)	1MOOP (Means of Operational Insula 5656 VDC, Prima 2121 VDC, Prima 707 VDC, Secor <300µA NC, <100 <100µA NC, <500 Logic low with inp prior to output 1 of Isolated. Contact Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option.	of Operator Protection) ation(Consult factory for 1MOPP) ry to Secondary ry to Ground adary to Ground 00µA SFC 0µA SFC 0µA SFC 0µA SFC 0µA strc 0µA SFC 0µA strc 0µA SFC 0µA strc 0µA strc 10 strc 1
Primary to Ground Secondary to Ground Dielectric Strength(s, 9) Reinforced Insulation Derational Insulation Deprational 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)	1MOOP (Means of Operational Insula 5656 VDC, Prima 2121 VDC, Prima 707 VDC, Secor <300µA NC, <100 <100µA NC, <100 <100µA NC, <500 prior to output 1 of Isolated. Contact Single wire currer sense return. Min each module's ou voltage deviation V models and 4000 Isolated 5 Vdc ± Inhibit option.	of Operator Protection) tition(Consult factory for 1MOPP) ry to Secondary ry to Ground 00µA SFC 0µA SFC 0µA SFC 0µA SFC 0µA SFC 10 power failure 10 ms minimum propping 1%. closure inhibits output. It sharing with return via negative imum current share load is 10% of tput current rating. Maximum output between modules is 5% for 2.5 through 5 0 mV for remaining models. 10%, 10 mA available only with Remote ation of output cable losses
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	1MOOP (Means of Operational Insula 5656 VDC, Prima 2121 VDC, Prima 707 VDC, Secor <300µA NC, <100 <100µA NC, <500 Logic low with inp prior to output 1 of Isolated. Contact Single wire currer sense return. Min each module's ou voltage deviation V models and 400 V models and 400 Isolated 5 Vdc ± Inhibit option.	of Operator Protection) ation(Consult factory for 1MOPP) ry to Secondary ry to Ground odary to Ground 00µA SFC DµA SFC other failure 10 ms minimum lropping 1%. closure inhibits output. tt sharing with return via negative imum current share load is 10% of tput current rating. Maximum output between modules is 5% for 2.5 through 5 0 mV for remaining models. 10%, 10 mA available only with Remote ation of output cable losses in., MIL-HDBK-217F, 25° C, GB
Primary to Ground Secondary to Ground Dielectric Strength.e. 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	1MOOP (Means of Operational Insula 5656 VDC, Prima 2121 VDC, Prima 707 VDC, Secor <300µA NC, <100 <100µA NC, <500 Logic low with inp prior to output 1 0 Isolated. Contact Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 0.85 Lbs. Open F	of Operator Protection) ation(Consult factory for 1MOPP) ry to Secondary ry to Ground ddary to Ground 00µA SFC DµA SFC ut power failure 10 ms minimum lropping 1%. closure inhibits output. tt sharing with return via negative imum current share load is 10% of tput current rating. Maximum output between modules is 5% for 2.5 through 5 0 mV for remaining models. 10%, 10 mA available only with Remote ation of output cable losses in, MIL-HDBK-217F, 25° C, GB Frame/ 1.37 Lbs. Chassis and Cover
Primary to Ground Secondary to Ground Dielectric Strength(a, 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 EMICSPECIFICATIONS	1MOOP (Means of Operational Insula 5656 VDC, Prima 2121 VDC, Prima 707 VDC, Secor <300µA NC, <100 <100µA NC, <500 Logic low with ing prior to output 1 of Isolated. Contact Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 0.85 Lbs. Open F	of Operator Protection) ation(Consult factory for 1MOPP) ry to Secondary ry to Ground odary to Ground 00µA SFC DµA SFC 0µA SFC closure failure 10 ms minimum Iropping 1%. closure inhibits output. tt sharing with return via negative imum current share load is 10% of typut current rating. Maximum output between modules is 5% for 2.5 through 5 0 mV for remaining models. 10%, 10 mA available only with Remote ation of output cable losses in., MIL-HDBK-217F, 25° C, GB Frame/ 1.37 Lbs. Chassis and Cover 2:2014, 4 TH ed./IEC 61000-6-2:2005)
Primary to Ground Secondary to Ground Dielectric Strength.e. 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	1MOOP (Means of Operational Insula 5656 VDC, Prima 2121 VDC, Prima 707 VDC, Secor <300µA NC, <100 <100µA NC, <500 Logic low with inp prior to output 1 0 Isolated. Contact Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 0.85 Lbs. Open F	of Operator Protection) ation(Consult factory for 1MOPP) ry to Secondary ry to Ground ddary to Ground 00µA SFC DµA SFC ut power failure 10 ms minimum lropping 1%. closure inhibits output. tt sharing with return via negative imum current share load is 10% of tput current rating. Maximum output between modules is 5% for 2.5 through 5 0 mV for remaining models. 10%, 10 mA available only with Remote ation of output cable losses in, MIL-HDBK-217F, 25° C, GB Frame/ 1.37 Lbs. Chassis and Cover
Primary to Ground Secondary to Ground Dielectric Strength, e, e) Reinforced Insulation Basic Insulation Derational 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 Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts	1MOOP (Means of Operational Insula 5656 VDC, Prima 2121 VDC, Prima 707 VDC, Secor <300µA NC, <100 <100µA NC, <500 Logic low with inp prior to output 1 d Isolated. Contact Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 0.85 Lbs. Open F (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 EN 61000-4-4	bf Operator Protection) ation(Consult factory for 1MOPP) ry to Secondary ry to Ground 00μA SFC 0μA SFC 0
Primary to Ground Secondary to Ground Dielectric Strength _(8, 9) Reinforced Insulation Basic Insulation Derational 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 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 prior to output 1 d Isolated. Contact Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 0.85 Lbs. Open F (IEC 60501-1 EN 61000-4-2 EN 61000-4-3 EN 61000-4-5	of Operator Protection) ation(Consult factory for 1MOPP) ry to Secondary ry to Ground adary to Ground 00µA SFC 0µA Staine 0ation of output between modules is 5% for 2.5 through 5 0 mV for remaining models. 10%, 10 mA available only with Remote ation of o
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 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 prior to output 1 d Isolated. Contact Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 0.85 Lbs. Open F (IEC 60601-1 EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-6	of Operator Protection) ation(Consult factory for 1MOPP) ry to Secondary ry to Ground odary to Ground 00µA SFC 0µA Station of output. 10 m A available only with Remote ation of output cable losses in., MIL-HDBK-217F, 25° C, GB Frame/ 1.37 Lbs. Chassis and Cover
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 EMCSDECIFICATIONS Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field 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 prior to output 1 of Isolated. Contact Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 0.85 Lbs. Open F (IEC 60601-1- EN 61000-4-3 EN 61000-4-3 EN 61000-4-5 EN 61000-4-8	of Operator Protection) ation(Consult factory for 1MOPP) ry to Secondary ry to Ground adary to Ground 00µA SFC 0µA SFC 10 mather and negative immum current share load is 10% of tput current rating. Maximum output between modules is 5% for 2.5 through 5 0 m K or remaining models. 10%, 10 mA available onl
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 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 prior to output 1 d Isolated. Contact Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 0.85 Lbs. Open F (IEC 60601-1 EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-6	of Operator Protection) ation(Consult factory for 1MOPP) ry to Secondary ry to Ground odary to Ground 00µA SFC 0µA solution 0µA solution 0µA solution 100 at a solution 110 mA available only with Remote ation of output cable losses in., MIL-HDBK-217F, 25° C, GB Frame/ 1.37 Lbs. Chassis and Cover 222014, 474 ed./IEC 61000-6-2:2005) ±8KV contact / ±15KV air discharge A
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 EMCSDECIFICATIONS Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field 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 prior to output 1 of Isolated. Contact Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 0.85 Lbs. Open F (IEC 60601-1- EN 61000-4-3 EN 61000-4-3 EN 61000-4-5 EN 61000-4-8	of Operator Protection) ation(Consult factory for 1MOPP) ry to Secondary ry to Ground ddary to Ground 00µA SFC DµA SFC DµA SFC DµA SFC closure failure 10 ms minimum lropping 1%. closure inhibits output. tt sharing with return via negative imum current share load is 10% of tput current rating. Maximum output between modules is 5% for 2.5 through 5 0 mV for remaining models. 10%, 10 mA available only with Remote ation of output cable losses in., MIL-HDBK-217F, 25° C, GB Frame/ 1.37 Lbs. Chassis and Cover 2:2014, 4T# ed./IEC 61000-6-2:2005) ±8KV contact / ±15KV air discharge A 80MHz-2.7GHz, 10V/m, 80% AM ±2 KV line to earth / ±1 KV line to line 4.2 KV Vine to earth / ±1 KV line to line 4.30A/m, 60 Hz. 0% Ur, 0.5 cycles, 0-315° 100/240V A/A
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 EMCSDECIFICATIONS Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field 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 prior to output 1 of Isolated. Contact Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 0.85 Lbs. Open F (IEC 60601-1- EN 61000-4-3 EN 61000-4-3 EN 61000-4-5 EN 61000-4-8	of Operator Protection) ation(Consult factory for 1MOPP) ry to Secondary ry to Ground ddary to Ground 00µA SFC 0µA Seconsata
Primary to Ground Secondary to Ground Dielectric Strength _(8, 9) Reinforced Insulation Basic Insulation Derational 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 ₍₁₀₎ Mean-Time Between Failures Weight Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Woltage Dips	1MOOP (Means of Operational Insula 5656 VDC, Prima 2121 VDC, Prima 707 VDC, Secon <300µA NC, <100 <100µA NC, <500 Logic low with inp prior to output 1 d Isolated. Contact Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 0.85 Lbs. Open F (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 EN 61000-4-3 EN 61000-4-11 EN 61000-4-11	ation(Consult factory for 1MOPP) ry to Secondary ry to Ground ddary to Ground 00µA SFC 0µA Sec
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NXT-175 SERIES MECHANICAL SPECIFICATIONS



ALL DIMENSIONS IN INCHES (mm)

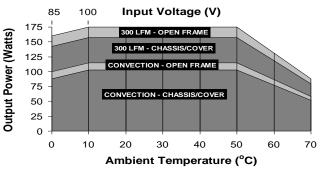
CONNECTOR SPECIFICATIONS

P1 • NEUTRAL • LINE	AC Input	0.156 friction lock header mates with Molex 09-50-3031 or equivalent crimp terminal housing with Molex 2478 or equivalent crimp terminal.
Р2 ОИТРИТ 1 (-) 🕞 🚱 ОИТРИТ 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	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 175W.
- 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



 $\begin{array}{l} \textbf{Derating requirements} - Chart \ above \ applies \ to \ models \ 1003 \ thru \ 1008 \ only. \ 175W \ 300LFM \ forced \ air, \ open \ frame. \ 115W \ convection \ cooled \ open \ frame. \ Derate \ 10\% \ with \ chassis \ and \ cover. \ Derate \ 1.0W_{OUT} \ / 1V_{IN} \ below \ 100V_{IN} \ and \ between \ 100V_{IN} \ and \ 85V_{IN}. \ Use \ larger \ of \ the \ two \ deratings \ when \ using \ chassis/cover \ below \ 100V_{IN}. \ Derate \ output \ power \ linearly \ to \ 50\% \ between \ 50^\circ \ and \ 70^\circC. \end{array}$

TYPICAL LOAD SHARE/REMOTE APPLICATION

