## **100 WATTS**

#### SINGLE OUTPUT AC-DC

### FEATURES:

- Compact 2.5" x 4.5" x 1.0" Size
- 3 Year Warranty
- Universal 85-264V Input
- Single High Efficiency Output
- Power Fail Warning
- 0-70°C Operating Temperature
- RoHS Compliant
- IEC 60601-1-2 4th ed. EMC Class B Emissions per EN55011/32
- Optional Single Wire Load Sharing
- Optional Remote Inhibit/Enable

• IEC 60601-1 3rd ed. Medical Cert.

• IEC 62368-1 2<sup>nd</sup> ed. Certification

Optional Chassis/Cover



	TUV SUD America	EN 62368-1:2014, 2nd Edition EN 60601-1:2006/A1:2013			
CE	Low Voltage Directive RoHS Directive (Recast)	(2014/35/EU of February 2014) (2015/863/EU of March 2015)			
UK CA	Electrical Equipment (Safety) Regulations 2016 SI No. 1101 Restriction of the Use of Certain Hazardous Substances in EEE Regulations				

2012 SI No. 3032 + 2019 SI No.492

MODEL LISTING					
OPEN FRAME		CHASSIS/COVER			
MODEL	300 LFM	CONVECTION COOLED	300 LFM	CONVECTION COOLED	
NXT-100-1001	2.5V/20.0A	2.5V/14.0A	2.5V/18.0A	2.5V/12.6A	
NXT-100-1002	3.3V/20.0A	3.3V/14.0A	3.3V/18.0A	3.3V/12.6A	
NXT-100-1003	5V/20.0A	5V/14.0A	5V/18.0A	5V/12.6A	
NXT-100-1004	12V/8.3A	12V/5.8A	12V/7.5A	12V/5.2A	
NXT-100-1005	15V/6.7A	15V/4.7A	15V/6.0A	15V/4.2A	
NXT-100-1006	24V/4.2A	24V/2.9A	24V/3.8A	24V/2.6A	
NXT-100-1007	28V/3.6A	28V/2.5A	28V/3.2A	28V/2.3A	
NXT-100-1008	48V/2.1A	48V/1.5A	48V/1.9A	48V/1.4A	

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
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CO - Cover LS - Single Wire Load Sharing LSEVB - Load Share Evaluation Board RE - Remote Inhibit

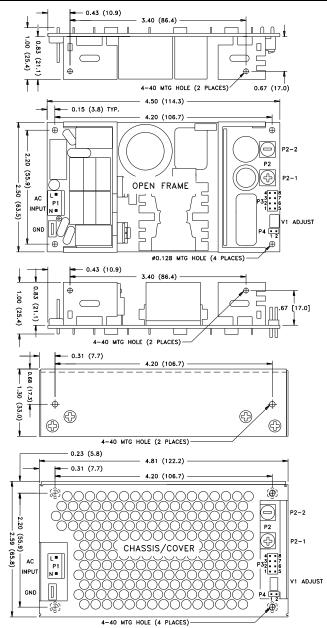
All specifications are maximum at 25°C/100W unless otherwise stated, may vary by model and are subject to change without notice.

# NXT-100

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	UT SPECIFI	
Output Power at 50°C(1)	70W	Convection Cooled, Open Frame
(See Derating Chart)	100W	300LFM Forced-Air Cooled(15)
Power Derating Voltage Centering	1.0 WOUT / 1 VIN b	oelow 100 Vin (50% load)
Voltage Adjust Range	± 0.5% 95-105%	(50% load)
Load Regulation	0.5%	(0-100% load change)
Source Regulation	0.5%	
Noise	1.0% or 100mV	Whichever is greater
Turn on Overshoot	None	
Transient Response	Output recovers to	o within 1% of initial set point due
	to a 50% step load 4% maximum dev	d change, 500µS maximum,
Overvoltage Protection		n 110% and 150% of rated output
Overvoltage i Totection	voltage.	
Overpower Protection		Pout, cycle on/off, auto recovery
Hold Up Time		ower, 85-264V Input
Start Up Time	3 Seconds, 120V	
	JT SPECIFIC	ATIONS
Protection Class	1	
Source Voltage	85 - 264 Volts AC	
Frequency Range	47 - 63 Hz	- Delay fue
Input Protection <sub>(6)</sub> Peak Inrush Current	Internal 2.5A Time 50A (cold)	5 Delay 105e
Efficiency		Power varies by model
Power Factor	0.95 (Full Power,	230V), 0.98 (Full Power, 120V)
ENVIRON	IENTAL SPI	ECIFICATIONS
Ambient Operating	0°C to + 70°C	
Temperature Range	Derating: See Pov	wer Rating Chart
Ambient Storage Temp. Range	- 40°C to + 85°C	
Operating Relative Humidity Range		
Altitude	3000m ASL	Operating
Temperature Coefficient	12,192m ASL 0.02%/°C	Non-Operating
Vibration		z per MIL-STD-810F Method 514.5
Shock	20g, peak per MIL	STD-810F Method 514.5
GENE	RAL SPECIF	
Means of Protection		
Primary to Secondary		of Patient Protection)
Primary to Ground		of Patient Protection)
Secondary to Ground	Operational Insula	ation(Consult factory for 1MOPP)
Dielectric Strength <sub>(8, 9)</sub> Reinforced Insulation	5656 VDC, Prima	ny to Secondary
Basic Insulation	2121 VDC, Prima	
Operational Insulation	707 VDC, Secon	
Leakage Current		
Earth Leakage	<300µA NC, <100	
Touch Current		
Power Fail Signal(14)	<100µA NC, <500	
	<100µA NC, <500 Logic low with inp	ut power failure 10 ms minimum
Remote Inhibit (optional)(20)	<100µA NC, <500 Logic low with inp prior to output 1 d	ut power failure 10 ms minimum Iropping 1%.
Remote Inhibit (optional)(20) Load Share (optional)(16, 17, 18)	<100µA NC, <500 Logic low with inp prior to output 1 d Connection to ext	ut power failure 10 ms minimum
Remote Inhibit (optional) <sub>(20)</sub> Load Share (optional) <sub>(16, 17, 18)</sub>	<100µA NC, <500 Logic low with inp prior to output 1 d Connection to ext Single wire curren sense return. Mini	ut power failure 10 ms minimum Iropping 1%. ernal 5V bias inhibits output. It sharing with return via negative imum current share load is 10% of
Remote Inhibit (optional) <sub>(20)</sub> Load Share (optional) <sub>(16, 17, 18)</sub>	<100µA NC, <500 Logic low with inp prior to output 1 d Connection to ext Single wire curren sense return. Mini each module's ou	ut power failure 10 ms minimum Iropping 1%. ernal 5V bias inhibits output. It sharing with return via negative imum current share load is 10% of ttput current rating. Maximum output
Remote Inhibit (optional) <sub>(20)</sub> Load Share (optional) <sub>(16, 17, 18)</sub>	<100µA NC, <500 Logic low with inp prior to output 1 d Connection to ext Single wire curren sense return. Mini each module's ou voltage deviation	ut power failure 10 ms minimum Iropping 1%. ernal 5V bias 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
Load Share (optional)(16, 17, 18)	<100µA NC, <500 Logic low with inp prior to output 1 d Connection to ext Single wire currer sense return. Mini each module's ou voltage deviation V models and 400	ut power failure 10 ms minimum Iropping 1%. ernal 5V bias inhibits output. It 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.
Load Share (optional)(16, 17, 18) Remote Sense(10)	<100µA NC, <500 Logic low with inp prior to output 1 d Connection to ext Single wire currer sense return. Mini each module's ou voltage deviation V models and 400 400mV compensa	ut power failure 10 ms minimum Iropping 1%. ernal 5V bias inhibits output. It sharing with return via negative imum current share load is 10% of itput current rating. Maximum output between modules is 5% for 2.5 through 5 D mV for remaining models. ation of output cable losses
Load Share (optional)(16, 17, 18) Remote Sense(10) Mean-Time Between Failures	<100µA NC, <500 Logic low with inp prior to output 1 d Connection to ext Single wire curren sense return. Mini each module's ou voltage deviation V models and 400 400mV compense 100,000 Hours, M	ut power failure 10 ms minimum Iropping 1%. ernal 5V bias inhibits output. It sharing with return via negative imum current share load is 10% of ttput current rating. Maximum output between modules is 5% for 2.5 through 5 0 mV for remaining models. ation of output cable losses IIL-HDBK-217F, 25° C, GB
Load Share (optional) <sub>(16, 17, 18)</sub> Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight	<100µA NC, <500 Logic low with inp prior to output 1 d Connection to ext Single wire currer sense return. Mini each module's ou voltage deviation V models and 400 400mV compense 100,000 Hours, M 0.56 Lbs. Open F	ut power failure 10 ms minimum Iropping 1%. ernal 5V bias 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. ation of output cable losses IIL-HDBK-217F, 25° C, GB Frame/ 0.96 Lbs. Chassis and Cover
Load Share (optional) <sub>(16, 17, 18)</sub> Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight	<100µA NC, <500 Logic low with inp prior to output 1 d Connection to ext Single wire currer sense return. Mini each module's ou voltage deviation V models and 400 400mV compense 100,000 Hours, M 0.56 Lbs. Open F	ut power failure 10 ms minimum Iropping 1%. ernal 5V bias inhibits output. It sharing with return via negative imum current share load is 10% of itput current rating. Maximum output between modules is 5% for 2.5 through 5 D mV for remaining models. ation of output cable losses IIL-HDBK-217F, 25° C, GB Frame/ 0.96 Lbs. Chassis and Cover 2:2014, 4 <sup>TH</sup> ed./IEC 61000-6-2:2005)
Load Share (optional)(16, 17, 18) Remote Sense(10) Mean-Time Between Failures Weight EMCSPECIFICATION	<100µA NC, <500 Logic low with inp prior to output 1 d Connection to ext Single wire currer sense return. Mini each module's ou voltage deviation V models and 400 400mV compensa 100,000 Hours, M 0.56 Lbs. Open F S (IEC 60601-1-3)	ut power failure 10 ms minimum Iropping 1%. ernal 5V bias 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. ation of output cable losses IIL-HDBK-217F, 25° C, GB Frame/ 0.96 Lbs. Chassis and Cover
Load Share (optional)(16, 17, 18) Remote Sense(10) Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge	<100µA NC, <500 Logic low with inp prior to output 1 d Connection to ext Single wire currer sense return. Mini each module's ou voltage deviation V models and 400 400mV compensa 100,000 Hours, M 0.56 Lbs. Open F S (IEC 60601-1-2 EN 61000-4-2	ut power failure 10 ms minimum Iropping 1%. ernal 5V bias 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. ation of output cable losses IIL-HDBK-217F, 25° C, GB Frame/ 0.96 Lbs. Chassis and Cover 2:2014, 4 <sup>TH</sup> ed./IEC 61000-6-2:2005) ±8KV contact / ±15KV air discharge A 80MHz-2.7GHz, 10V/m, 80% AM A
Load Share (optional)(16, 17, 18) Remote Sense(10) Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field	<100µA NC, <500 Logic low with inp prior to output 1 d Connection to ext Single wire currer sense return. Mini each module's ou voltage deviation V models and 400 400mV compensa 100,000 Hours, M 0.56 Lbs. Open F S (IEC 60601-1-2 EN 61000-4-2 EN 61000-4-3	ut power failure 10 ms minimum Iropping 1%. ernal 5V bias inhibits output. at 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 D mV for remaining models. ation of output cable losses IIL-HDBK-217F, 25° C, GB Frame/ 0.96 Lbs. Chassis and Cover <b>2:2014, 4<sup>TH</sup> ed./IEC 61000-6-2:2005)</b> ±8KV contact / ±15KV air discharge A 80MH2-2.7GH2, 10V/m, 80% AM A ±2 KV, 5KH2/100KHz A ±2 KV line to earth / ±1 KV line to line A
Load Share (optional)(16, 17, 18) Remote Sense(10) Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity	<100µA NC, <500 Logic low with inp prior to output 1 d Connection to ext Single wire currer sense return. Mini each module's ou voltage deviation V models and 400 400mV compense 100,000 Hours, M 0.56 Lbs. Open F S (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6	ut power failure 10 ms minimum Iropping 1%. ernal 5V bias inhibits output. Int sharing with return via negative imum current share load is 10% of tyut current rating. Maximum output between modules is 5% for 2.5 through 5 D mV for remaining models. ation of output cable losses IIL-HDBK-217F, 25° C, GB Frame/ 0.96 Lbs. Chassis and Cover <b>2:2014, 4<sup>TH</sup> ed./IEC 61000-6-2:2005)</b> ±8KV contact / ±15KV air discharge A 80MHz-2.7GHz, 10V/m, 80% AM A 22 KV, 5KHz/100KHz A 0.15 to 80MHz, 10V, 80% AM A
Load Share (optional)(16, 17, 18) Remote Sense(10) Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity	<100µA NC, <500 Logic low with inp prior to output 1 d Connection to ext Single wire currer sense return. Mini each module's ou voltage deviation V models and 400 400mV compense 100,000 Hours, M 0.56 Lbs. Open F <b>S (IEC 60601-1-</b> EN 61000-4-3 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-8	ut power failure 10 ms minimum Iropping 1%. ernal 5V bias inhibits output. It sharing with return via negative imum current share load is 10% of tyut current rating. Maximum output between modules is 5% for 2.5 through 5 D mV for remaining models. ation of output cable losses IIL-HDBK-217F, 25° C, GB Frame/ 0.96 Lbs. Chassis and Cover <b>2:2014, 4<sup>TH</sup> ed./IEC 61000-6-2:2005)</b> ±8KV contact / ±15KV air discharge A 80MHz-2.7GHz, 10V/m, 80% AM A ±2 KV, 5KHz/100KHz A 0.15 to 80MHz, 10V, 80% AM 30A/m, 60 Hz. A total state of the searth / ±1 KV line to line A
Load Share (optional)(16, 17, 18) Remote Sense(10) Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity	<100µA NC, <500 Logic low with inp prior to output 1 d Connection to ext Single wire currer sense return. Mini each module's ou voltage deviation V models and 400 400mV compense 100,000 Hours, M 0.56 Lbs. Open F S (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6	ut power failure 10 ms minimum Iropping 1%. ernal 5V bias 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 D mV for remaining models. ation of output cable losses IIL-HDBK-217F, 25° C, GB Frame/ 0.96 Lbs. Chassis and Cover <b>2:2014, 4<sup>TH</sup> ed./IEC 61000-6-2:2005)</b> ±8KV contact / ±15KV air discharge A 80MHz-2.7GHz, 10V/m, 80% AM A ±2 KV, 5KHz/100KHz A ±2 KV, 5KHz/100KHz A 0.15 to 80MHz, 10V, 80% AM A 30A/m, 60 Hz. A 0% UT, 0.5 cycles, 0.315° 100/240V A/A
Load Share (optional)(16, 17, 18) Remote Sense(10) Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity	<100µA NC, <500 Logic low with inp prior to output 1 d Connection to ext Single wire currer sense return. Mini each module's ou voltage deviation V models and 400 400mV compense 100,000 Hours, M 0.56 Lbs. Open F <b>S (IEC 60601-1-</b> EN 61000-4-3 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-8	ut power failure 10 ms minimum Iropping 1%. ernal 5V bias inhibits output. It 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. ation of output cable losses IIL-HDBK-217F, 25° C, GB Frame/ 0.96 Lbs. Chassis and Cover <b>22014, 4<sup>TH</sup> ed./IEC 61000-6-2:2005)</b> ±8KV contact / ±15KV air discharge A 80MHz-2.7GHz, 10V/m, 80% AM A ±2 KV, 5KHz/100KHz A 42 KV, 5KHz/100KHz A 0.15 to 80MHz, 10V, 80% AM A 30A/m, 60 Hz. A 0% UT, 0.5 cycles, 0-315° 100/240V A/A
Load Share (optional)(16, 17, 18) Remote Sense(10) Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity	<100µA NC, <500 Logic low with inp prior to output 1 d Connection to ext Single wire currer sense return. Mini each module's ou voltage deviation V models and 400 400mV compense 100,000 Hours, M 0.56 Lbs. Open F <b>S (IEC 60601-1-</b> EN 61000-4-3 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-8	ut power failure 10 ms minimum Iropping 1%. ernal 5V bias inhibits output. It 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. ation of output cable losses IIL-HDBK-217F, 25° C, GB Frame/ 0.96 Lbs. Chassis and Cover <b>2:2014, 4<sup>TH</sup> ed./IEC 61000-6-2:2005)</b> ±8KV contact / ±15KV air discharge A 80MHz-2.7GHz, 10V/m, 80% AM A ±2 KV, 5KHz/100KHz A ±2 KV, 5KHz/100KHz A 0.15 to 80MHz, 10V, 80% AM A 30A/m, 60 Hz. A 0% Ur, 0.5 cycles, 0-315° 100/240V A/A 40% Ur, 10/12 cycles, 0° 100/240V B/A
Load Share (optional)(16, 17, 18) Remote Sense(10) Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity Voltage Dips	<100µA NC, <500 Logic low with inp prior to output 1 d Connection to ext Single wire currer sense return. Mini each module's ou voltage deviation V models and 400 400mV compensa 100,000 Hours, M 0.56 Lbs. Open F S (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 EN 61000-4-3 EN 61000-4-5 EN 61000-4-8 EN 61000-4-8 EN 61000-4-11	ut power failure 10 ms minimum Iropping 1%. ernal 5V bias inhibits output. It sharing with return via negative imum current share load is 10% of itput current rating. Maximum output between modules is 5% for 2.5 through 5 D mV for remaining models. ation of output cable losses IIL-HDBK-217F, 25° C, GB Frame/ 0.96 Lbs. Chassis and Cover 2:2014, 4 <sup>TH</sup> ed./IEC 61000-6-2:2005) ±8KV contact / ±15KV air discharge A 80MHz-2.7GHz, 10V/m, 80% AM 4 ±2 KV, 5KHz/100KHz A 22 KV line to earth / ±1 KV line to line A 0.15 to 80MHz, 10V, 80% AM 30A/m, 60 Hz. 0% UT, 1 cycles, 0° 100/240V A/A 0% UT, 1 cycles, 0° 100/240V B/A 70% UT, 25/30 cycles, 0° 100/240V B/A
Load Share (optional)(16, 17, 18) Remote Sense(10) Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity	<100µA NC, <500 Logic low with inp prior to output 1 d Connection to ext Single wire currer sense return. Mini each module's ou voltage deviation V models and 400 400mV compense 100,000 Hours, M 0.56 Lbs. Open F <b>S (IEC 60601-1-</b> EN 61000-4-3 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-8	ut power failure 10 ms minimum Iropping 1%. ernal 5V bias inhibits output. It 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. ation of output cable losses IIL-HDBK-217F, 25° C, GB Frame/ 0.96 Lbs. Chassis and Cover <b>2:2014, 4<sup>TH</sup> ed./IEC 61000-6-2:2005)</b> ±8KV contact / ±15KV air discharge A 80MHz-2.7GHz, 10V/m, 80% AM A ±2 KV, 5KHz/100KHz A ±2 KV, 5KHz/100KHz A 0.15 to 80MHz, 10V, 80% AM A 30A/m, 60 Hz. A 0% Ur, 0.5 cycles, 0-315° 100/240V A/A 40% Ur, 10/12 cycles, 0° 100/240V B/A
Load Share (optional)(16, 17, 18) Remote Sense(10) Mean-Time Between Failures Weight EMCSPECIFICATIONS Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity Voltage Dips Voltage Interruptions	<100µA NC, <500 Logic low with inp prior to output 1 d Connection to ext Single wire currer sense return. Mini each module's ou voltage deviation V models and 400 400mV compenses 100,000 Hours, M 0.56 Lbs. Open F S (IEC 60601-1- EN 61000-4-2 EN 61000-4-2 EN 61000-4-8 EN 61000-4-11	ut power failure 10 ms minimum Iropping 1%. ernal 5V bias 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. ation of output cable losses IIL-HDBK-217F, 25° C, GB Frame/ 0.96 Lbs. Chassis and Cover <b>2:2014, 4<sup>TH</sup> ed./IEC 61000-6-2:2005)</b> ±8KV contact / ±15KV air discharge A 80MH2-2.7GHz, 10V/m, 80% AM A ±2 KV, 5KHz/100KHz A ±2 KV line to earth / ±1 KV line to line A 0.15 to 80MHz, 10V, 80% AM A 30A/m, 60 Hz. A 0% UT, 10:5 cycles, 0° 100/240V A/A 0% UT, 10:12 cycles, 0° 100/240V B/A 0% UT, 25/30 cycles, 0° 100/240V B/A
Load Share (optional)(16, 17, 18)         Remote Sense(10)         Mean-Time Between Failures         Weight         Encode Sense(10)         Remote Sense(10)         Mean-Time Between Failures         Weight         Encode Sense(10)         Radiated Electromagnetic Field         Electrical Fast Transients/Bursts         Surge Immunity         Conducted Immunity         Magnetic Field Immunity         Voltage Dips         Voltage Interruptions         Radiated Emissions	<100µA NC, <500 Logic low with inp prior to output 1 d Connection to ext Single wire currer sense return. Mini each module's ou voltage deviation V models and 400 400mV compenss 100,000 Hours, M 0.56 Lbs. Open F <b>S (IEC 60601-1-</b> EN 61000-4-3 EN 61000-4-3 EN 61000-4-3 EN 61000-4-5 EN 61000-4-8 EN 61000-4-11 EN 61000-4-11 EN 61000-4-11 EN 55011/32	ut power failure 10 ms minimum logping 1%. ernal 5V bias inhibits output. at 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. ation of output cable losses IIL-HDBK-217F, 25° C, GB Frame/ 0.96 Lbs. Chassis and Cover <b>2:2014, 4<sup>TH</sup> ed./IEC 61000-6-2:2005)</b> ±8KV contact / ±15KV air discharge A 80MH2-2.7GH2, 10V/m, 80% AM A ±2 KV, 5KH2/100KHz A ±2 KV, 5KH2/100KHz A 0.15 to 80MH2, 10V, 80% AM A 30A/m, 60 Hz. A 0% UT, 0.5 cycles, 0° 100/240V A/A 0% UT, 10/12 cycles, 0° 100/240V A/A 0% UT, 10/12 cycles, 0° 100/240V B/A 70% UT, 25/30 cycles, 0° 100/240V B/B Class B



### NXT-100 SERIES MECHANICAL SPECIFICATIONS



ALL DIMENSIONS IN INCHES (mm)

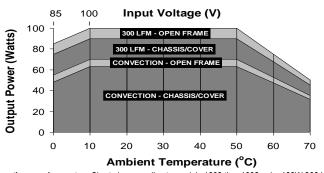
CONNECTOR SPECIFICATIONS

P1 LINE NEUTRAL	AC Input	0.156 friction lock header mates with Molex 09-50-3031 or equivalent crimp terminal housing with Molex 2478 or equivalent crimp terminal.					
<b>P2</b> OUTPUT 1 (+) 1 ⊕ ⊖2 OUTPUT 1 (-)	DC Output	6-32 screw down terminal mates with #6 ring tongue terminal. (10 in-lb Max)					
P3           SENSE (+)         4         ●         8         OUTPUT 1 (+)           SENSE (-)         3         ●         7         OUTPUT 1 (-)           ENABLE         2         ●         6         P.F. RTN           SENSE (-)         1         ●         5         P.F. SIG (+)	Power Fail, 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 SHARE BUS 1 • 2 INHIBIT	Inhibit, Load Share	0.100 friction lock header mates with Molex 50-57-9002 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 100W.
- 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 for additional load-share applications information.
- P3-2 Load Share Enable and P4-2 Remote Inhibit will share a common negative return pin P3-1.
- 20. Remote Inhibit option will require an outside TTL compatible source.

### MAX Pout vs. AMBIENT TEMPERATURE/INPUT VOLTAGE



**Derating requirements** – Chart above applies to models 1003 thru 1008 only. 100W 300 LFM forced air, open frame. 70W convection cooled open frame. Derate 10% with Chassis and Cover. Derate 1.0Wout / 1VIN below 100VIN and between 100VIN and 85VIN. Use larger of the two deratings when using chassis/cover below 100VIN. Derate output power linearly to 50% between 50° and 70°C.

### TYPICAL LOAD SHARE/REMOTE SENSE APPLICATION

