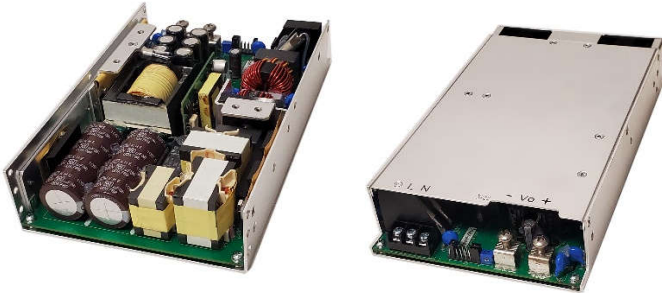


KEY FEATURES

- 5.0" x 8.0" x 1.6" Size
- 3 Year Warranty
- Universal 85-264V Input
- 94% Peak/90% Average Efficiency
- <300mW No Load Input Power
- -20 to +70°C Operating Temperature
- RoHS Compliant
- IEC 60601-1 3rd ed. Medical Cert.
- IEC 62368-1 2nd ed. Certification
- IEC 60601-1-2 4th ed. EMC
- Class B Emissions per EN55011/32
- 5V/2A Standby Output
- 12V/0.6A Fan Output
- Remote Inhibit/Enable
- Optional Cover/Fan Enclosure
- Optional Cover/Fan/Active Current Share



SAFETY SPECIFICATIONS

	Underwriters Laboratories File E137708/E140259	UL 62368-1:2014, 2 nd Edition CAN/CSA-C22.2 No. 62368-1-14 AAMI/ANSI ES60601-1:2005/(R) 2012 CAN/CSA-C22.2 No. 60601-1:2014
	CB Reports/Certificates (including all National and Group Deviations)	IEC 62368-1:2014, 2nd Edition IEC 60601-1:2005/A1:2012
	TUV SUD America	EN 62368-1:2014, 2nd Edition EN 60601-1:2006/A1:2013
	Low Voltage Directive RoHS Directive (Recast)	(2014/35/EU of February 2014) (2015/863/EU of March 2015)
	Electrical Equipment (Safety) Regulations 2016 SI No. 1101 Restriction of the Use of Certain Hazardous Substances in EEE Regulations 2012 SI No. 3032 + 2019 SI No.492	

MODEL LISTING

MODEL	OUTPUT
DPNXT1000-1001	+12V/70.8A
DPNXT1000-1002	+15V/66.7A
DPNXT1000-1003	+24V/41.7A
DPNXT1000-1004	+28V/35.7A
DPNXT1000-1005	+36V/27.8A
DPNXT1000-1006	+48V/20.8A
DPNXT1000-1007	+56V/17.9A

EMC SPECIFICATIONS (IEC 60601-1-2:2014, 4TH ed./IEC 61000-6-2:2005)

Electrostatic Discharge	EN 61000-4-2	±8KV contact / ±15KV air discharge	A
Radiated Electromagnetic Field	EN 61000-4-3	80MHz-2.7GHz, 10V/m, 80% AM	A
Electrical Fast Transients/Bursts	EN 61000-4-4	±2 KV, 5KHz/100KHz	A
Surges	EN 61000-4-5	±2 KV line to earth / ±1 KV line to line	A
Conducted Immunity	EN 61000-4-6	0.15 to 80MHz, 10V, 80%, AM	A
Magnetic Field Immunity	EN 61000-4-8	30A/m, 60 Hz	A
Voltage Dips	EN 61000-4-11	0% U _r , 0.5 cycles, 0-315°	100/240V A/A
		0% U _r , 1 cycle, 0°	100/240V A/A
		40% U _r , 12 cycles, 0°	100/240V B/A
		70% U _r , 30 cycles, 0°	100/240V B/A
Voltage Interruptions	EN 61000-4-11	0% U _r , 300 cycles, 0°	100/240V B/B
Radiated Emissions	EN 55011/32, FCC Part 15	Class B	
Conducted Emissions	EN 55011/32, FCC Part 15	Class B	
Harmonic Current Emissions	EN 61000-3-2	Class A	
Voltage Fluctuations/Flicker	EN 61000-3-3	Compliant	

OUTPUT SPECIFICATIONS

Output Power at 50°C _{C(1)}	1000W – internal fan enclosure (1001-850W)
	1000W – 300 LFM cooling, chassis (1001-850W)
	400W – conv. cooled, chassis (1001-350W)
Voltage Centering	±0.5% (50% load)
Voltage Adjust Range	95-105%
Load Regulation	±0.5% (10-100% load change)
Source Regulation	0.5%
Ripple & Noise	1.0% or 250mV p-p, 20MHz BW
Turn On Overshoot	None
Transient Response	Output recovers to within 1% of initial set point due to a 50-100-50% step load change, 1ms maximum, 4% maximum deviation.
Overvoltage Protection	Latching, between 110% and 150% of rated output voltage
Overpower Protection	110%-150% rated P _{OUT} , cycle on/off, auto recovery
Hold-Up Time	20ms minimum, full power
Start-Up Time	<1 sec., 115/230V input
Output Rise Time	15ms typical
Minimum Load ⁽⁵⁾	No minimum load required: skip mode @ power levels <5%
Remote Sense ⁽⁹⁾	250mV compensation of output cable losses
Inhibit/Enable (System) ⁽¹⁶⁾	Contact closure inhibits output
Standby Output	Provides 5V/2A
Fan Output	12V/0.6A

INPUT SPECIFICATIONS

Protection Class	I
Source Voltage	85 – 264 VAC (see derating chart)
Source Frequency	47 – 63 Hz
Input Protection	Dual internal 16A time-delay fuses, 1,500A breaking capacity
Peak Inrush Current	40A max
Peak Efficiency	94%
Average Efficiency	90% (Avg. of 25%, 50%, 75% and 100% rated load)
No Load Input Power	<300mW

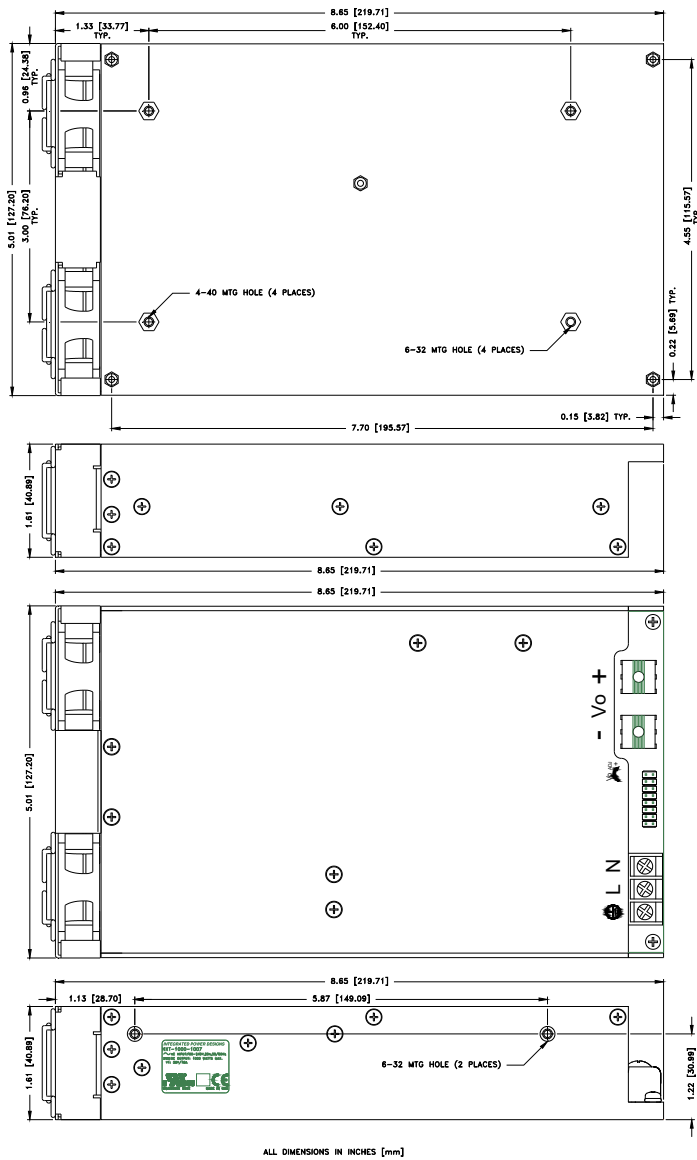
ENVIRONMENTAL SPECIFICATIONS

Ambient Operating Temp. Range	-20°C to +70°C, Derating: (see derating chart)
Ambient Storage Temp. Range	-40°C to +85°C
Operating Relative Humidity Range	20-90% non-condensing
Altitude	5,000m ASL Operating/12,192m ASL Non-Operating
Temperature Coefficient	0.02%/°C
Vibration (MIL-STD-810G)	2.5G swept sine, 10-2,000Hz, 1 octave/min, 3 axis, 1 hour each
Shock (MIL-STD-810G)	20g, 11 ms, 3 axis

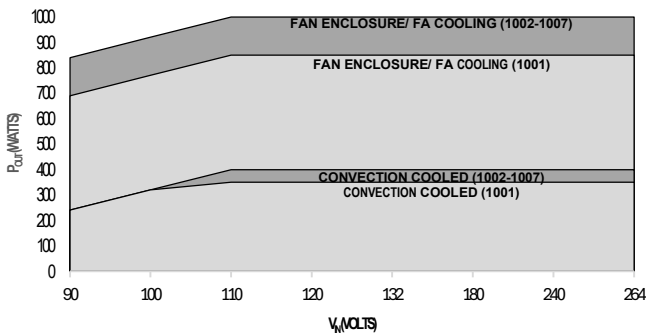
GENERAL SPECIFICATIONS

Means of Protection	
Primary to Secondary	2MOPP (Means of Patient Protection)
Primary to Ground	1MOPP (Means of Patient Protection)
Secondary to Ground	Operational Insulation
Dielectric Strength ^(5,6)	
Reinforced Insulation	5656VDC (4000VAC)
Basic Insulation	2121VDC (1500VAC)
Operational Insulation	707VDC (500VAC)/2121VDC (1500VAC)
Leakage Current	
Earth Leakage	<300µA NC, <1000µA SFC
Touch Current	<100µA NC, <500µA SFC
AC Power Fail Signal ⁽¹³⁾	Logic low 15-20ms prior to AC input failure
Switching Frequency	LLC/PFC: Variable
Mean-Time Between Failures	150,000 hours, MIL-HDBK-217F, 25°C, GB
Weight	2.85lb Chassis/Cover/Fan, 2.45lb Chassis

NXT-1000M MULTI MECHANICAL SPECIFICATIONS

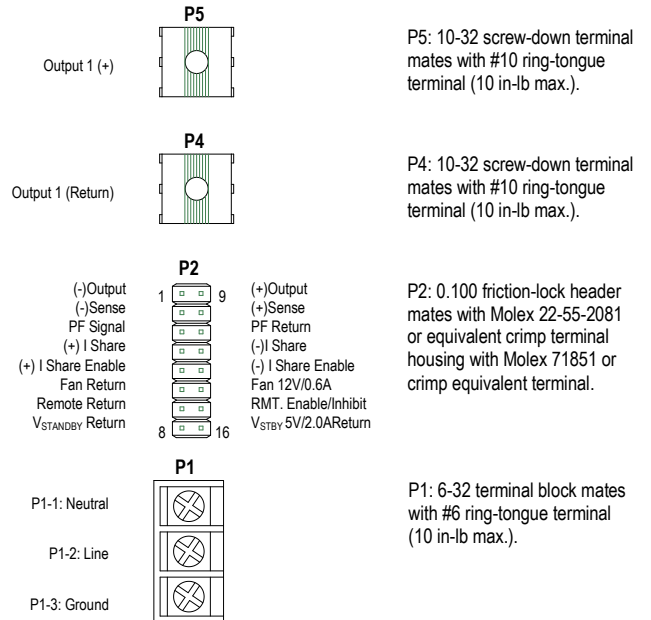


MAX P_{OUT} vs. INPUT VOLTAGE



- Derate Total Output Power 8Watts/Volt 110V Input.
- Derate Total Output Power linearly from 100% at 50°C to 50% at 70°C.

CONNECTOR SPECIFICATIONS



APPLICATIONS INFORMATION

- Total output power must not exceed 1000W, 110-264Vac Input. See Derating Requirements below for output power ratings for Input voltages less than 110Vac.
- Generally, adequate cooling is provided when semiconductor case temperatures do not exceed 70°C rise and transformer temperature does not exceed 60°C rise at any specified ambient temperature.
- Sufficient area must be provided around power supply to allow natural movement of air to develop in convection-cooled applications.
- This product is intended for use as a professionally-installed component within information technology, industrial, and medical equipment and is not intended for stand-alone operation.
- Minimum load is not required for reliable operation.
- Peak-to-Peak Output Ripple and Noise is measured directly at the output terminals, without the use of the probe ground lead or retractable tip (tip-and-barrel method), 20 MHz.
- This product was type-tested and safety-certified using the dielectric strength test voltages listed in Table 6 of IEC60601-1:2005. In consideration of clause 8.8.3, care must be taken to ensure 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 type test on the power supply or the end product. It is highly recommended that the DC test voltage listed in DVB.1, annex DVB of UL60601-1 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 250mV, 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.
- Maximum screw penetration into bottom chassis mounting holes is 0.100 inches. Maximum screw penetration into side chassis mounting holes is 0.188 inches.
- To comply with emissions specifications, FN 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 10-15ms prior to loss of output from AC failure, 5V/10mA.
- 300LFM minimum of airflow must be maintained one inch above all points of top-side components when forced-air cooling is required.
- Standby enables output with a P2-16 to P2-8 switch closure, 5V Max./2A Max.
- Remote Inhibit feature, P2-15 to P2-7 switch open, turns output off.
- Remote Enable feature, P2-15 to P2-7 switch closure, turns output on.