400 WATTS

SINGLE OUTPUT AC-DC

FEATURES:

- Compact 4.06" x 9.4" x 1.8" Size IEC 60601-1 3rd ed. Medical Cert.
 - IEC 62368-1 2nd ed. Certification
- 3 Year Warranty Universal 85-264V Input
- Single High Efficiency Output
- Power Fail Warning
- IEC 60601-1-2 4th ed. EMC
- Class B Emissions per EN55011/32
- 0-70°C Operating Temperature
- RoHS Compliant



SAFETY SPECIFICATIONS

IECEE	CB Reports/Certificates (including all National and Group Deviations)	IEC 62368-1:2014, 2 nd Edition IEC 60601-1:2005/A1:2012		
SUD SUD	TUV SUD America	EN 62368-1:2014, 2 nd Edition EN 60601-1:2006/A1:2013		
"	Low Voltage Directive	(2014/35/EU of February 2014)		
CE	RoHS Directive (Recast)	(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				
NXT-400-100	3-FN 5V/80.0A			
NXT-400-100	4-FN 12V/33.3A			
NXT-400-100	5-FN 15V/26.7A			
NXT-400-100	6-FN 24V/16.7A			

28V/14.3A

ORDERING INFORMATION

Consult factory for alternate output configurations.

NXT-400-1007-FN

All specifications are maximum at 25°C/400W unless otherwise stated, may vary by model and are subject to change without notice.

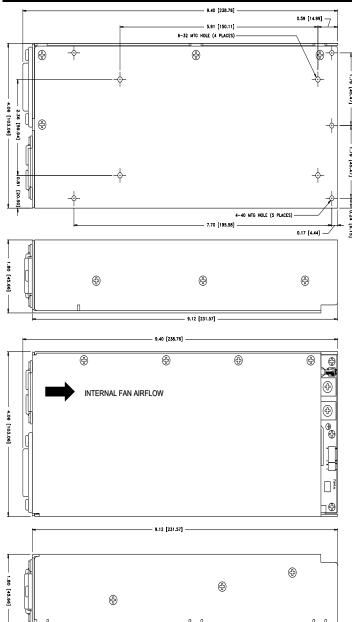
T-400-FN **OUTPUT SPECIFICATIONS** 400W

OUTF		e/mone		
Output Power at 50°C(1)	400W	400.1/		
Power Derating	2.5 WOUT / 1 VIN			
Voltage Centering	± 0.5%	(50% load)		
Voltage Adjust Range	95-105%	(0.4000) (
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		to within 1% of initial set point due to a 50%		
		500µS maximum, 4% maximum deviation.		
Overvoltage Protection		n 110% and 150% of rated output voltage.		
Overpower Protection		Pout, cycle on/off, auto recovery		
Hold Up Time	16ms min., Full Power, 85-264V Input			
Start Up Time 3 Seconds, 120V Input INPUT SPECIFICATIONS				
	JT SPECIFIC	CATIONS		
Protection Class				
Source Voltage	85 - 264 Volts A	0		
Frequency Range	47 – 63 Hz			
Input Protection(3)	Internal 10A Time	e Delay fuse		
Peak Inrush Current	50A (cold)			
Efficiency	85% Typical, Full	Power varies by model		
Power Factor		230V), 0.98 (Full Power, 120V)		
ENVIRONI	MENTAL SP	ECIFICATIONS		
Ambient Operating	0°C to + 70°C			
Temperature Range	Derating: See Po	wer Rating Chart		
Thermal Shutdown		inhibited during excessive internal		
	temperatures, automatic reset.			
Ambient Storage Temp. Range	- 40°C to + 85°C			
Operating Relative Humidity Range	20-90% non-condensing			
	3,000 ASL - Ope			
Altitude	12,192m ASL – N			
Temperature Coefficient	0.02%/°C			
Vibration		Hz per MIL-STD-810F Method 514.5		
	20a, neak ner MI	L_STD_810F Method 516 5		
Shock	20g, peak per MI	L-STD-810F Method 516.5		
Shock GENE	20g, peak per MI RAL SPECIF	L-STD-810F Method 516.5		
Shock GENE Means of Protection	20g, peak per MI RAL SPECIF	L-STD-810F Method 516.5 FICATIONS		
Shock CENE Means of Protection Primary to Secondary	20g, peak per MI RAL SPECIE 2MOPP (Means of	L-STD-810F Method 516.5 FICATIONS of Patient Protection)		
Shock GENE Means of Protection Primary to Secondary Primary to Ground	20g, peak per MI RAL SPECIF 2MOPP (Means 1MOOP (Means	L-STD-810F Method 516.5 FICATIONS of Patient Protection) of Operator Protection)		
Shock CENE Means of Protection Primary to Secondary Primary to Ground Secondary to Ground	20g, peak per MI RAL SPECIF 2MOPP (Means 1MOOP (Means	L-STD-810F Method 516.5 FICATIONS of Patient Protection)		
Shock CENE Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(5,6)	20g, peak per MI RAL SPECIE 2MOPP (Means 1MOOP (Means Operational Insul	L-STD-810F Method 516.5 FICATIONS of Patient Protection) of Operator Protection) ation(Consult factory for 1MOPP)		
Shock GENE Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(s,6) Reinforced Insulation	20g, peak per MI RAL SPECIF 2MOPP (Means 1MOOP (Means Operational Insul 5656 VDC, Prima	L-STD-810F Method 516.5 FICATIONS of Patient Protection) of Operator Protection) ation(Consult factory for 1MOPP) ary to Secondary		
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Shock CENE Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(s,e) Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current	20g, peak per MI RAL SPECIE 2MOPP (Means Operational Insul 5656 VDC, Prima 2121 VDC, Prima 707 VDC, Seco <300µA NC, <10 <100µA NC, <50	L-STD-810F Method 516.5 FICATIONS of Patient Protection) of Operator Protection) ation(Consult factory for 1MOPP) ary to Secondary ary to Ground ndary to Ground 00µA SFC 0µA SFC		
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Shock GENE Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(s,e) Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal(10) Remote Sense(7)	20g, peak per MI RAL SPECIE 2MOPP (Means of 1MOOP (Means of Operational Insulation 5656 VDC, Prima 2121 VDC, Prima 707 VDC, Seco <300µA NC, <10 <100µA NC, <50 Logic low with ing output 1 dropping 400mV compens	L-STD-810F Method 516.5 FICATIONS of Patient Protection) of Operator Protection) ation(Consult factory for 1MOPP) ary to Secondary ary to Ground ndary to Ground 00µA SFC 0µA SFC 0µA SFC 0µA SFC out power failure 10 ms minimum prior to 1%. ation of output cable losses		
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Voltage Fluctuations/Flicker EN 61000-3-3 Compliant

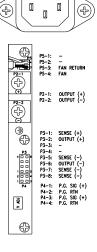


NXT-400 SERIES MECHANICAL SPECIFICATIONS



ALL DIMENSIONS IN INCHES (mm)

CONNECTOR SPECIFICATIONS



AC INLET: IEC 320 C14 mates with AC power cable C13 or equivalent AC power cable.

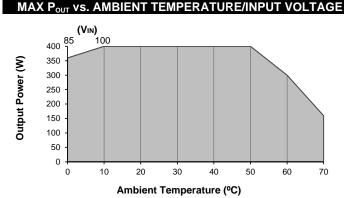
P2: 10-32 screw down terminal mates with #10 ring tongue terminal. (10 in-lb Max)

P3. 0.100 friction lock header mates with Molex 22-55-2081 or equivalent crimp terminal housing with Molex 71851 or equivalent crimp terminal.

P4. 0.100 friction lock header mates with Molex 22-55-2041 or equivalent crimp terminal housing with Molex 71851 or crimp equivalent terminal.

APPLICATIONS INFORMATION

- 1. Continuous Output Power must not exceed 400W.
- 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.
- 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.
- 5. 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.
- 8. Maximum screw penetration into bottom chassis mounting holes is 0.100 inches.
- 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.



Derating requirements

-Derate 2.5Wout/1Vin below 100Vin and between 100Vin and 85Vin. -Derate output power linearly to 40% between 50° and 70°C.

REV. O 2/28/2024

