400 WATTS

MULTI OUTPUT AC-DC

FEATURES:

- Compact 4.15" x 8.40" x 1.61" Size
- 1U Height
- 3 Year Warranty
- · Universal 85-264V Input
- 2-4 Regulated & Adjustable Outputs
- 90% Peak/87% Average Efficiency
- <300mW No Load Input Power
- -20 to +70°C Operating Temperature
- 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
- Optional 5V/2A Standby Output
- Optional Remote Inhibit/Enable
- **RoHS Compliant**



SAFETY SPECIFICATIONS



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 1	OUTPUT 2	OUTPUT 3	OUTPUT 4	
NXT-400M-4002-FN	+5V/40A	+3.3-5V/15A	+12-15V/5A	-12-15V/5A	
NXT-400M-4003-FN	+5V/40A	+12-15V/10A	+12-15V/5A	-12-15V/5A	
NXT-400M-4004-FN	+5V/40A	+24-28V/5A	+12-15V/5A	-12-15V/5A	
NXT-400M-4005-FN	+24V/12.5A	-24-28V/5A	+12-15V/5A	-12-15V/5A	
NXT-400M-3001-FN	+5V/40A	+12-15/10A		-12-15V/5A	
NXT-400M-2001-FN	+5V/40A	+24-28V/5A			
NXT-400M-2002-FN	+5V/40A	+12-15V/10A			
NXT-400M-2003-FN	+12V/25A	-12-15V/10A			
NXT-400M-2004-FN	+15V/20A	-12-15V/10A			

ORDERING INFORMATION

Consult factory for alternate output configurations. Please specify output voltage set points when ordering. Please specify the following optional features when ordering:

I/O-Isolated Outputs RE/SB- Remote Inhibit/Standby Output

PF-Power Fail Warning

BF-Type BF

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

NXT-400M-FN

OUTPUT SPECIFICATIONS				
Output Power at 50°C	400W			
Voltage Centering	Outputs 1-4:	±0.5%	(All outputs at 50% load)	
Voltage Adjust Range	Outputs 1:	95-105%		
	Outputs 2-4:	90-110%(11)		
Load Regulation	Outputs 1:	±0.2%	(0-100% load change)	
	Outputs 2-4:	±1.0%	(0-100% load change)	
Source Regulation	Outputs 1-4:	0.2%		
Cross Regulation	Outputs 2-4:	0.2%		
Ripple & Noise	Outputs 1-4	1.0% or 100r	mV p-p, 20MHz BW	
Turn On Overshoot	None			
Transient Response	Output recovers to within 1% of initial set point due to a			
			1ms maximum, 4%	
	maximum devia	ation.		
Overpower Protection	110%-150% ra	ted Роит, cycle o	off/on, auto recovery.	
Overvoltage Protection	Output 1, 110%	5-150% of rated	output voltage, latching.	
Overtemperature Protection	Latching			
Hold-Up Time	20ms minimum	, full power.		
Start-Up Time	<1 sec., 115/23	80V input.		
Output Rise Time	Output 1: 5ms	typical. Outputs 2	2-4: 30ms typical.	
Minimum Load(3)	No minimum lo	ad required.		
Remote Sense(7)	Output 1: 250m	V compensation	of output cable losses.	
Enable/Inhibit (System)(12)	Contact closure	e enables all outp	outs with RE/SB option.	
Enable/Inhibit (Outputs 2, 3, 4)(13)	Contact closure	e inhibits individu	al output.	
Standby Output	Provides 5V/2A	while all other o	outputs are	
•	Inhibited /off wi	th RE/SB option.	· ·	
INDI	IT SPECIE			

INPUT SPECIFICATIONS			
Protection Class	1		
Source Voltage	85 – 264 VAC (see derating chart)		
Frequency Range	47 – 63 Hz		
Input Protection	Dual internal 8A time delay fuses, 1500A breaking capacity		
Peak Inrush Current	40A max		
Peak Efficiency	Up to 90%		
Average Efficiency	Up to 87% (Avg. of 25%, 50%, 75% and 100% rated load)		
No Load Input Power	<300mW (with RE/SB option)		
	<500mW (with RE/SB and PF option)		

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	3,000m ASL Operating (5,000m consult factory) 12,192m ASL – Non-Operating	
Temperature Coefficient	0.02%/°C	
Vibration (MIL-STD-810G)	2.5G swept sine, 10-2000Hz, 1 octave/min, 3 axis, 1 hour each	
Shock (MIL-STD-810G)	20g, 11 ms, 3 axis.	

GENERAL SPECIFICATIONS

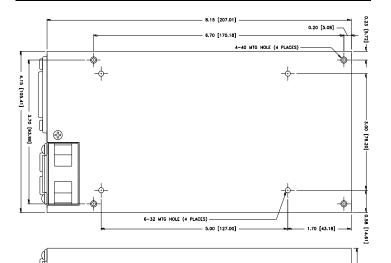
CENERAL OF EOIL TOATION				
Means of Protection				
Primary to Secondary	2MOPP (Means of Patient Protection)			
Primary to Ground	1MOPP (Means of Patient Protection)			
Secondary to Ground	Operational Insulation (1MOPP w/ Option BF)			
Dielectric Strength(5,6)				
Reinforced Insulation	5656VDC (4000VAC)			
Basic Insulation	2121VDC (1500VAC)			
Operational Insulation	707VDC (500VAC)/2121VDC (1500VAC) w/ Option BF			
Leakage Current				
Earth Leakage	<300µA NC, <1000µA SFC			
Touch Current	<100µA NC, <500µA SFC			
Patient Leakage Current	<100µA NC, <500µA SFC w/Option BF			
AC Power Fail Signal	Logic low 10-15ms prior to V1 loss of regulation.			
Switching Frequency	PWM:133 KHz/PFC:Variable			
Mean-Time Between Failures	150,000 hours, MIL-HDBK-217F, 25°C, GB			
Weight	2.35 lb			

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EMC SPECIFICATION	S (IEC 60601-1-	-2:2014, 4 TH ed./IEC 610	00-6-2:2005)
Electrostatic Discharge	EN 61000-4-2	±8KV contact / ±15KV air discharge	
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	
Surge Immunity	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	
Magnetic Field Immunity	EN 61000-4-8	30A/m, 60 Hz.	Α
Voltage Dips	EN 61000-4-11	0% U _T , 0.5 cycles, 0-315°	100/240V A/A
		0% U _T , 1 cycles, 0°	100/240V A/A
		40% U _T , 10/12 cycles, 0°	100/240V B/A
		70% U _T , 25/30 cycles, 0°	100/240V B/A
Voltage Interruptions	EN 61000-4-11	0% U _T , 300 cycles, 0°	100/240V B/B
Radiated Emissions	EN 55011/32	Class B	
Conducted Emissions	EN 55011/32	Class B	
Harmonic Current Emissions	EN 61000-3-2	Class A	

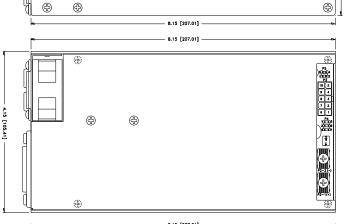
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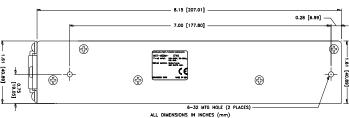
NXT-400M MULTI MECHANICAL SPECIFICATIONS

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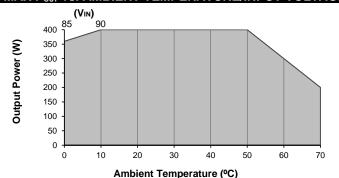


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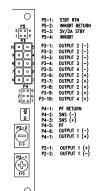
MAX Pout vs. AMBIENT TEMPERATURE/INPUT



- Derate Total Output Power linearly from 100% at 50°C to 50% at 70°C.
- Derate Total Output Power linearly from 100% at 90V_{IN} to 90% at 85V_{IN}.

CONNECTOR SPECIFICATIONS





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

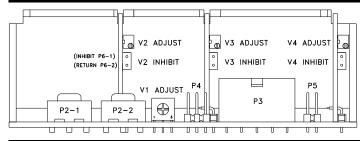
P5: 0.100 friction lock header mates with Molex 22-55-2041 or equivalent crimp terminal housing with Molex 71851 or equivalent crimp terminal.

P3: 5566 Mini-Fit Jr. header mates with 5557 Mini-Fit Jr. or equivalent crimp housing with 5556 Mini-Fit or equivalent Crimp Terminal.

P4: 0.100 breakaway header mates with Molex 22-55-2061 or equivalent crimp terminal housing with Molex type 70058 or equivalent crimp terminal.

P2: 6-32 screw terminal mates with #6 ring tongue terminal. (10 in-lb Max).

OUTPUT VOLTAGE ADJUSTMENT LOCATIONS



APPLICATIONS INFORMATION

- Each output can deliver its rated current but Total 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.
- 3. Minimum load is not required for reliable operation; however, a 5% load may be required on Output 1 when loading Outputs 2, 3 or 4 to full rated current.
- 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 appropriatelyrated 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.
- Common RF shielding precautions may need to be taken to assure emissions compliance. Refer to Operating Instructions for additional information.
- 10. 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 (4001:3.3V/10mA).
- Outputs 2, 3 and 4 are adjustable from -10% of lowest voltage rating to +10% of highest
- 12. RE/SB Option enables all outputs with a P5-4 to P5-2 switch closure, 6V Max./50mA.
- 13. Output 2, 3 and 4 Inhibit feature shuts down only that output with a P6-1 to P6-2 switch closure, 45V Max