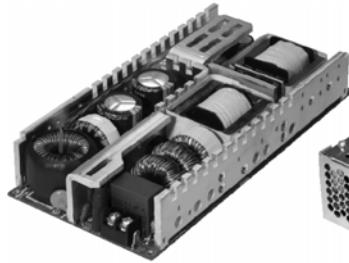


400 WATTS

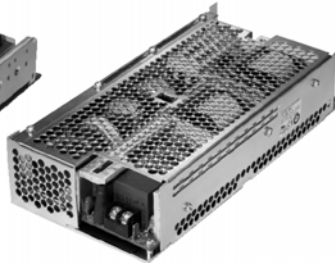
NXT-400 SERIES AC-DC

FEATURES:

- RoHS Compliant
- 2 Year Warranty
- High Efficiency, 85% typical
- High Power Density, 8.5 W / cu in.
- Compact 3.9" x 8.0" x 1.5" size
- EN 60950-1 ITE Certification
- EN 60601-1 Medical Certification
- EMC to EN 61000-6-2 & EN 60601-1-2
- Advanced SMT Design
- Optional Chassis/Cover
- Optional Single Wire Load Sharing
- Optional Remote Inhibit/Enable








OPEN FRAME



CHASSIS/COVER

SAFETY SPECIFICATIONS

General	Protection Class: I
	Overvoltage Category: II
	Pollution Degree: 2
 Underwriters Laboratories File E137708/E140259	UL 60950-1 2 nd Edition UL 60601-1 1 st Edition
	CB Certificate per IEC 60950-1:2005 2 nd Edition +A1:2009 including all National Deviations CB Certificate per IEC 60601-1 (1988) 2 nd Edition A1, A2
 UL Recognition Mark for Canada File E137708/E140259	CAN/CSA-C22.2 No. 60950-1-07, 2 nd Edition CAN/CSA-C22.2 No. 601-1-M90 with updates 1 and 2
 TUV	EN 60950-1/A1:2010 EN 60601-1/A2:1995
	Low Voltage Directive

MODEL LISTING

MODEL	OPEN FRAME		CHASSIS/COVER	
	300 LFM	CONVECTION COOLED	300 LFM	CONVECTION COOLED
NXT-400-1001	2.5V/80.0A	2.5V/45.0A	2.5V/72.0A	2.5V/40.5A
NXT-400-1002	3.3V/80.0A	3.3V/45.0A	3.3V/72.0A	3.3V/40.5A
NXT-400-1003	5V/80.0A	5V/45.0A	5V/72.0A	5V/40.5A
NXT-400-1004	12V/33.3A	12V/18.8A	12V/29.9A	12V/16.9A
NXT-400-1005	15V/26.7A	15V/15.0A	15V/24.0A	15V/13.5A
NXT-400-1006	24V/16.7A	24V/9.4A	24V/15.0A	24V/8.5A
NXT-400-1007	28V/14.3A	28V/8.0A	28V/12.8A	28V/7.2A
NXT-400-1008	48V/8.3A	48V/4.7A	48V/7.5A	48V/4.2A

Please refer to Output Power Derating chart.

ORDERING INFORMATION

Please specify the following optional features when ordering:

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

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

OUTPUT SPECIFICATIONS

Output Power at 50°C	225W	Convection Cooled, Open Frame
	400W	300 LFM Forced Air, Open Frame
Power Derating	2.5 Wout / 1 VIN below 100 VIN	
Voltage Centering	± 0.5%	(50% load)
Voltage Adjust Range	95-105%	
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 within 1% of initial set point due to a 50% step load change, 500µS maximum, 4% maximum deviation.	
Overvoltage Protection	Latching, between 110% and 150% of rated output voltage.	
Overpower Protection	110-130% rated Pout, cycle on/off, auto recovery	
Hold Up Time	16 mS min., Full Power, 85-264V Input	
Start Up Time	3 Seconds, 120V Input	

INPUT SPECIFICATIONS

Source Voltage	85 – 264 Volts AC, 120 - 370 Volts DC	
Frequency Range	47 – 63 Hz	
Input Protection	Internal 10A Time Delay fuse	
Peak Inrush Current	50A (cold)	
Efficiency	85% Typical, Full Power varies by model	
Power Factor	0.95 (Full Power, 230V), 0.98 (Full Power, 120V)	

ENVIRONMENTAL SPECIFICATIONS

Ambient Operating	0° C to + 70° C	
Temperature Range	Derating: See Power Rating Chart	
Thermal Shutdown	Output voltage is inhibited during excessive internal temperatures, automatic reset.	
Ambient Storage Temp. Range	- 40° C to + 85° C	
Operating Relative Humidity Range	20-90% non-condensing	
Altitude	10,000 ft. ASL	Operating
	40,000 ft. ASL	Non-operating
Temperature Coefficient	0.02%/°C	
Vibration	2.5g, 10Hz. – 2KHz per MIL-STD-810F Method 514.5	
Shock	20g, peak per MIL-STD-810F Method 516.5	

GENERAL SPECIFICATIONS

Dielectric Strength ⁽¹⁾⁽²⁾	Reinforced Insulation	5656 VDC, Primary to Secondary, 1 Sec.
	Basic Insulation	2545 VDC, Primary to Ground, 1 Sec.
	Operational Insulation	707 VDC, Secondary to Ground, 1 Sec.
Leakage Current	<300uA Earth Leakage Current	
Power Fail Signal	Logic low with input power failure 10 ms minimum prior to output 1 dropping 1%.	
Remote Inhibit (optional)	Isolated. Contact closure inhibits output.	
Load Share (optional)	Single wire current sharing with return via negative sense return. Minimum current share load is 10% of each module's output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models and 400 mV for remaining models.	
Standby Power (optional)	Isolated 5 VDC ± 10%, 10mA available with Remote Inhibit Option.	
Remote Sense	400mV compensation of output cable losses	
Mean-Time Between Failures	100,000 Hours min., MIL-HDBK-217F, 25° C, GB	
Weight	2.65 Lbs.	Open Frame
	3.60 Lbs.	Chassis and Cover

ELECTROMAGNETIC COMPATIBILITY SPECIFICATIONS

Electrostatic Discharge	EN 61000-4-2	± 6kV Contact Discharge ± 8kV Air Discharge
Radiated Electromagnetic Field	EN 61000-4-3	80-2500MHz, 10V/m, 80% AM
EFT/Bursts	EN 61000-4-4	± 2 kV
Surges	EN 61000-4-5	± 2 kV Line to Earth ± 1 kV Line to Line
Conducted Immunity	EN 61000-4-6	.15 to 80MHz, 10V, 80% AM
Magnetic Field Immunity	EN 61000-4-8	30A/m, 50/60 Hz.
Voltage Dips	EN 61000-4-11	95% Dip, 10ms 30% Dip, 500ms 60% Reduction, 1s (Criteria B)
Voltage Interruptions	EN 61000-4-11	95% Reduction, 5s
Radiated Emissions	EN 55011/22, FCC Part 15	Class B
Conducted Emissions	EN 55011/22, FCC Part 15	Class B
Harmonic Current Emissions	EN 61000-3-2	Compliance
Voltage Fluctuations and Flicker	EN 61000-3-3	Compliance

