SINGLE OUTPUT

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 3rd ed. Medical Cert.
- IEC 62368-1 2nd ed. Certification
- IEC 60601-1-2 4th ed. EMC
- Class B Emissions per EN55011/32
- Optional Single Wire Load Sharing
- Optional Remote Inhibit/Enable
- Optional Chassis/Cover





CHASSIS/COVER

OPEN FRAME

SAFETY SPECIFICATIONS



Underwriters Laboratories CTU US File E137708/E140259

UL 62368-1:2014, 2nd Edition CAN/CSA-C22.2 No. 62368-1-14, 2nd Edition AAMI/ANSI ES60601-1:2005/(R) 2012(R)2021 CAN/CSA-C22.2 No. 60601-1:2014:2022



CB Reports/Certificates (including all IEC 62368-1:2014, 2nd Edition National and Group Deviations) IEC 60601-1:2005/A1:2012



EN 62368-1:2014, 2nd Edition **TUV SUD America** EN 60601-1:2006/A1:2013



Low Voltage Directive (2014/35/EU of February 2014) RoHS Directive (Recast) (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

	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 LSEVB - Load Share Evaluation Board CO - Cover RE - Remote Inhibit

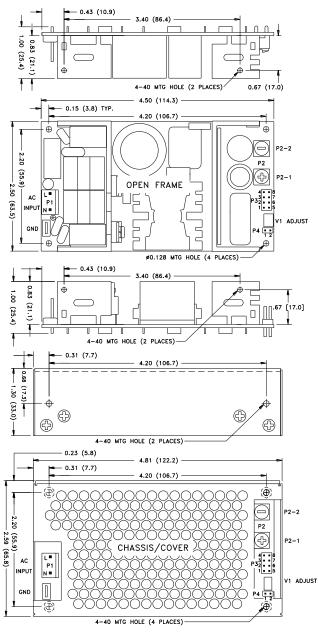
LS - Single Wire Load Sharing

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

NIYT_100

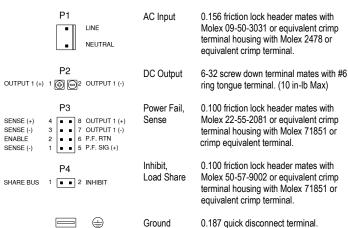
VX I - 1	
UT SPECIF	ICATIONS
	Convection Cooled, Open Frame
	300LFM Forced-Air Cooled ₍₁₅₎
	, ,
	(50% load)
	(00 /0 .000)
	(0-100% load change)
	(0 100 / 100 da change)
	Whichever is greater
	Willichever is greater
	o within 1% of initial set point due
	d change, 500µS maximum,
	n 110% and 150% of rated output
	Pout, cycle on/off, auto recovery
16ms min Full P	lower 85-264V Input
T SPECIFIC	CATIONS
0F 264 Valta A	
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	o Dolov fuos
	e Delay TUSE
	Davis and a key of the
85% Typical, Full	Power varies by model
	230V), 0.98 (Full Power, 120V)
	ECIFICATIONS
	wer Rating Chart
- 40°C to + 85°C	
20-90% non-cond	densing
3000m ASL	Operating
12,192m ASL	Non-Operating
0.02%/°C	
2.5g, 10Hz2KH	z per MIL-STD-810F Method 514.5
20g, peak per MII	L-STD-810F Method 514.5
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	to a 50% step loa 4% maximum dev Latching, betweer voltage. 110-130% rated F 16ms min., Full P 3 Seconds, 120V T SPECIFIC 1 85 – 264 Volts AC 47 – 63 Hz Internal 2.5A Tim 50A (cold) 85% Typical, Full 0.95 (Full Power, IENTAL SP 0°C to + 70°C Derating: See Po - 40°C to + 85°C 20-90% non-conc 3000m ASL 12,192m ASL 0.02%/°C 2.5g, 10Hz2KH

NXT-100 SERIES MECHANICAL SPECIFICATIONS



ALL DIMENSIONS IN INCHES (mm)

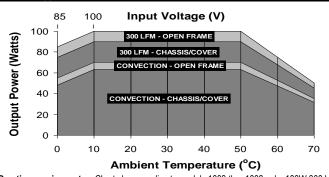
CONNECTOR SPECIFICATIONS



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.
- 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 handwidth
- 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.
- 10. 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
- 19. P3-2 Load Share Enable and P4-2 Remote Inhibit will share a common negative return pin P3-
- 20. Remote Inhibit option will require an outside TTL compatible source.

MAX P_{out} 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

