# **100 WATTS**

#### SINGLE OUTPUT AC-DC

## **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 60950-1 2<sup>nd</sup> ed. ITE 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** UL 60950-1:2007, 2nd Edition Underwriters Laboratories c**PL**us File E137708/E140259 AAMI/ANSI ES60601-1:2005/(R) 2012 CB Reports/Certificates (including all National and Group Deviations) IEC 60950-1/A2:2013, 2nd Edition IEC 60601-1:2005/A1:2012 **UL** Recognition CAN/CSA-C22.2 No. 60950-1-07, 2nd Edition c**Al**us Mark for Canada CAN/CSA-C22.2 No. 60601-1:2014 File E137708/E140259 EN 60950-1/A2:2013, 2nd Edition TUV EN 60601-1:2006/A1:2013 Low Voltage Directive (2014/35/EU of February 2014) RoHS Directive (Recast) (2011/65/EU of June 2011) MODEL LISTING

MODEL LIGHT				
OPEN FRAME		CHASSIS/COVER		
300 LFM	CONVECTION COOLED	300 LFM	CONVECTION COOLED	
2.5V/20.0A	2.5V/14.0A	2.5V/18.0A	2.5V/12.6A	
3.3V/20.0A	3.3V/14.0A	3.3V/18.0A	3.3V/12.6A	
5V/20.0A	5V/14.0A	5V/18.0A	5V/12.6A	
12V/8.3A	12V/5.8A	12V/7.5A	12V/5.2A	
15V/6.7A	15V/4.7A	15V/6.0A	15V/4.2A	
24V/4.2A	24V/2.9A	24V/3.8A	24V/2.6A	
28V/3.6A	28V/2.5A	28V/3.2A	28V/2.3A	
48V/2.1A	48V/1.5A	48V/1.9A	48V/1.4A	
	300 LFM  2.5V/20.0A 3.3V/20.0A 5V/20.0A 12V/8.3A 15V/6.7A 24V/4.2A 28V/3.6A	OPEN FRAME  300 LFM CONVECTION COOLED  2.5V/20.0A 2.5V/14.0A 3.3V/20.0A 5V/14.0A 5V/20.0A 5V/14.0A 12V/8.3A 12V/5.8A 15V/6.7A 15V/4.7A 24V/4.2A 24V/2.9A 28V/3.6A 28V/2.5A	OPEN FRAME         CHASS           300 LFM         CONVECTION COOLED         300 LFM           2.5V/20.0A         2.5V/14.0A         2.5V/18.0A           3.3V/20.0A         3.3V/14.0A         3.3V/18.0A           5V/20.0A         5V/14.0A         5V/18.0A           12V/8.3A         12V/5.8A         12V/7.5A           15V/6.7A         15V/4.7A         15V/6.0A           24V/4.2A         24V/2.9A         24V/3.8A           28V/3.6A         28V/2.5A         28V/3.2A	

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

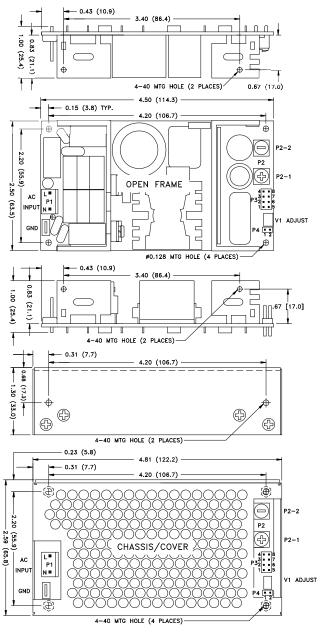
LS - Single Wire Load Sharing

All specifications are maximum at  $25^{\circ}$ C/100W unless otherwise stated, may vary by model and are subject to change without notice.

# NXT-100

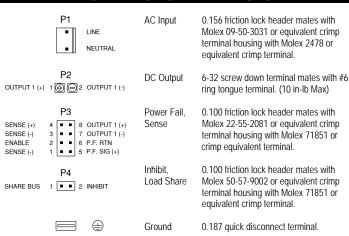
	VX I - 1	00
OUTP	UT SPECIF	ICATIONS
Output Power at 50°C <sub>(1)</sub>	70W	Convection Cooled, Open Frame
(See Derating Chart)	100W	300LFM Forced-Air Cooled(15)
Power Derating Voltage Centering	1.0 Wout / 1 Vin ± 0.5%	(50% load)
Voltage Adjust Range	95-105%	(50 % loau)
Load Regulation	0.5%	(0-100% load change)
Source Regulation	0.5%	
Noise	1.0% or 100mV	Whichever is greater
Turn on Overshoot Transient Response	None Output recovers	to within 1% of initial set point due
Transione recoponise		ad change, 500µS maximum,
	4% maximum de	viation.
Overvoltage Protection		n 110% and 150% of rated output
Overpower Protection	voltage. 110-130% rated	Pout, cycle on/off, auto recovery
Hold Up Time	16ms min., Full F	Power, 85-264V Input
Start Up Time	3 Seconds, 120V	'Input
	T SPECIFIC	CATIONS
Protection Class	0F 2/4 Volta A	6
Source Voltage Frequency Range	85 – 264 Volts A 47 – 63 Hz	<u>C</u>
nput Protection <sub>(6)</sub>	Internal 2.5A Tim	ne Delay fuse
Peak Inrush Current	50A (cold)	
Efficiency	85% Typical, Full	Power varies by model
Power Factor		230V), 0.98 (Full Power, 120V)
Ambient Operating	0°C to + 70°C	ECIFICATIONS
Temperature Range		ower Rating Chart
Ambient Storage Temp. Range	- 40°C to + 85°C	
Operating Relative Humidity Range		
Altitude	10,000 ft. ASL	Operating
Temperature Coefficient	40,000 ft. ASL 0.02%/°C	Non-operating
Vibration		Iz per MIL-STD-810F Method 514.5
Shock	20g, peak per MI	L-STD-810F Method 514.5
GENE	RAL SPECII	FICATIONS
Means of Protection	2MODD /M	of Dolland Douboution)
Primary to Secondary Primary to Ground		of Patient Protection) of Patient Protection)
Secondary to Ground		ation(Consult factory for 1MOOP or 1MOF
Dielectric Strength(8, 9)		
Reinforced Insulation Basic Insulation	5656 VDC, Prima 2121 VDC, Prima	
Operational Insulation		ndary to Ground
Leakage Current		•
Earth Leakage	<300µA NC, <10	000μA SFC
Touch Current	<100µA NC, <50	OµA SFC out power failure 10 ms minimum
Power Fail Signal <sub>(14)</sub>	Logic low with in	out dower failure 10 ms minimum
Remote Inhibit (optional)(20)		
	prior to output 1	
Load Share (optional)(16, 17, 18)	prior to output 1 c Connection to ex Single wire curre	dropping 1%. ternal 5V bias inhibits output. nt sharing with return via negative
Load Share (optional)(16, 17, 18)	prior to output 1 of Connection to ex Single wire curre sense return. Mir	dropping 1%. ternal 5V bias inhibits output. nt sharing with return via negative nimum current share load is 10% of
Load Share (optional)(16, 17, 18)	Connection to ex Single wire curre sense return. Mir each module's ou	dropping 1%. ternal 5V bias inhibits output.  nt sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output
Load Share (optional)(16, 17, 18)	prior to output 1 ( Connection to ex Single wire curre sense return. Mir each module's or voltage deviation	dropping 1%. ternal 5V bias inhibits output.  nt sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output
Remote Sense <sub>(10)</sub>	prior to output 1 of Connection to ex Single wire curre sense return. Mir each module's of voltage deviation V models and 40 400mV compens	dropping 1%. ternal 5V bias inhibits output. It sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output between modules is 5% for 2.5 through 0 mV for remaining models. ation of output cable losses
Remote Sense <sub>(10)</sub> Mean-Time Between Failures	prior to output 1 d Connection to ex Single wire curre sense return. Moi each module's voltage deviation V models and 40 400mV compens 100,000 Hours, N	dropping 1%. ternal 5V bias inhibits output.  nt sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output between modules is 5% for 2.5 through 0 mV for remaining models. ation of output cable losses MIL-HDBK-217F, 25° C, GB
Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight	prior to output 1 of Connection to ex Single wire curre sense return. Min each module's voltage deviation V models and 40 400mV compens 100,000 Hours, N 0.56 Lbs. Open	dropping 1%. ternal 5V bias inhibits output.  nt sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output between modules is 5% for 2.5 through 0 mV for remaining models. ation of output cable losses MIL-HDBK-217F, 25° C, GB Frame/ 0.96 Lbs. Chassis and Cover
Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight EMC SPECIFICATION:	prior to output 1 d Connection to ex Single wire curre sense return. Mir each module's voltage deviation V models and 40 400mV compens 100,000 Hours, N 0.56 Lbs. Open S (IEC 60601-1	dropping 1%.  ternal 5V bias inhibits output.  nt sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output between modules is 5% for 2.5 through 0 mV for remaining models.  ation of output cable losses MIL-HDBK-217F, 25° C, GB Frame/ 0.96 Lbs. Chassis and Cover -2:2014, 4 <sup>TH</sup> ed./IEC 61000-6-2:200
Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight <b>EMC SPECIFICATION</b> : Electrostatic Discharge	prior to output 1 de Connection to ex Single wire curre sense return. Min each module's voltage deviation V models and 40 400mV compens 100,000 Hours, N 0.56 Lbs. Open S (IEC 60601-1- EN 61000-4-2	dropping 1%.  ternal 5V bias inhibits output.  nt sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output between modules is 5% for 2.5 through 0 mV for remaining models. ation of output cable losses MIL-HDBK-217F, 25° C, GB Frame/ 0.96 Lbs. Chassis and Cover -2:2014, 4 <sup>TH</sup> ed.//EC 61000-6-2:200 ±8KV contact / ±15KV air discharge
Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight EMC SPECIFICATION: Electrostatic Discharge Radiated Electromagnetic Field	prior to output 1 d Connection to ex Single wire curre sense return. Mir each module's voltage deviation V models and 40 400mV compens 100,000 Hours, N 0.56 Lbs. Open S (IEC 60601-1	dropping 1%.  ternal 5V bias inhibits output.  nt sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output between modules is 5% for 2.5 through 0 mV for remaining models.  ation of output cable losses MIL-HDBK-217F, 25° C, GB Frame/ 0.96 Lbs. Chassis and Cover -2:2014, 4 <sup>TH</sup> ed./IEC 61000-6-2:200
Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight EMC SPECIFICATION: Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity	prior to output 1 d Connection to ex Single wire curre sense return. Mir each module's outvoltage deviation V models and 40 400mV compens 100,000 Hours, N 0.56 Lbs. Open S (IEC 60601-1: EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5	dropping 1%.  ternal 5V bias inhibits output.  nt sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output between modules is 5% for 2.5 through 0 mV for remaining models. ation of output cable losses MIL-HDBK-217F, 25° C, GB Frame/ 0.96 Lbs. Chassis and Cover  2:2014, 4 <sup>TH</sup> ed.//EC 61000-6-2:200 ±8KV contact / ±15KV air discharge 80MHz-2.7GHz, 10V/m, 80% AM ±2 KV, 5KHz/100KHz ±2 KV line to earth / ±1 KV line to line
Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight EMC SPECIFICATION: Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity	prior to output 1 d Connection to ex Single wire curre sense return. Mir each module's outvoltage deviation V models and 40 400mV compens 100,000 Hours, M 0.56 Lbs. Open S (IEC 60601-1: EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-6	dropping 1%.  ternal 5V bias inhibits output.  nt sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output between modules is 5% for 2.5 through 0 mV for remaining models. atlion of output cable losses  AllL-HDBK-217F, 25° C, GB  Frame/ 0.96 Lbs. Chassis and Cover  2:2014, 4 <sup>TH</sup> ed./IEC 61000-6-2:200  ±8KV contact / ±15KV air discharge  80MHz-2.7GHz, 10V/m, 80% AM  ±2 KV, 5KHz/100KHz  ±2 KV line to earth / ±1 KV line to line  0.15 to 80MHz, 10V, 80% AM
Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight EMC SPECIFICATION: Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity	prior to output 1 of Connection to ex Single wire curre sense return. Mir each module's of voltage deviation V models and 40 400mV compens 100,000 Hours, M 0.56 Lbs. Open S (IEC 60601-1 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8	dropping 1%. ternal 5V bias inhibits output. nt sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output between modules is 5% for 2.5 through 0 mV for remaining models. ation of output cable losses MIL-HDBK-217F, 25° C, GB Frame/ 0.96 Lbs. Chassis and Cover -2:2014, 4 <sup>TH</sup> ed./IEC 61000-6-2:200 ±8KV contact / ±15KV air discharge 80MHz-2.7GHz, 10V/m, 80% AM ±2 KV, 5KHz/100KHz ±2 KV, iine to earth / ±1 KV line to line 0.15 to 80MHz, 10V, 80% AM 30A/m, 60 Hz.
Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight  EMC SPECIFICATION: Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity	prior to output 1 d Connection to ex Single wire curre sense return. Mir each module's outvoltage deviation V models and 40 400mV compens 100,000 Hours, M 0.56 Lbs. Open S (IEC 60601-1: EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-6	dropping 1%.  ternal 5V bias inhibits output.  nt sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output between modules is 5% for 2.5 through 0 mV for remaining models.  ation of output cable losses  AllL-HDBK-217F, 25° C, GB  Frame/ 0.96 Lbs. Chassis and Cover  2:2014, 4 <sup>TH</sup> ed./IEC 61000-6-2:200  ±8KV contact / ±15KV air discharge  80MHz-2.7GHz, 10V/m, 80% AM  ±2 KV, 5KHz/100KHz  ±2 KV line to earth / ±1 KV line to line  0.15 to 80MHz, 10V, 80% AM  30A/m, 60 Hz.  0% U <sub>T</sub> , 0.5 cycles, 0.315° 100/240V A
Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight EMC SPECIFICATION: Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity	prior to output 1 of Connection to ex Single wire curre sense return. Mir each module's of voltage deviation V models and 40 400mV compens 100,000 Hours, M 0.56 Lbs. Open S (IEC 60601-1 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8	dropping 1%.  ternal 5V bias inhibits output.  nt sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output between modules is 5% for 2.5 through 0 mV for remaining models.  ation of output cable losses  MIL-HDBK-217F, 25° C, GB  Frame/ 0.96 Lbs. Chassis and Cover  2:2014, 4 <sup>TH</sup> ed./IEC 61000-6-2:200  ±8KV contact / ±15KV air discharge  80MHz-2.7GHz, 10V/m, 80% AM  ±2 KV, 5KHz/100KHz  ±2 KV line to earth / ±1 KV line to line  0.15 to 80MHz, 10V, 80% AM  30A/m, 60 Hz.  0% Ur, 0.5 cycles, 0-315° 100/240V A  0% Ur, 1 cycles, 0° 100/240V A
Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight EMC SPECIFICATION: Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity Voltage Dips	prior to output 1 of Connection to ex Single wire curre sense return. Mire each module's or voltage deviation V models and 40 omV compens 100,000 Hours, N 0.56 Lbs. Open S (IEC 60601-1. EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 EN 61000-4-11	dropping 1%.  ternal 5V bias inhibits output.  nt sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output between modules is 5% for 2.5 through 0 mV for remaining models.  ation of output cable losses  MIL-HDBK-217F, 25° C, GB  Frame/ 0.96 Lbs. Chassis and Cover  -2:2014, 4 <sup>TH</sup> ed./IEC 61000-6-2:200  ±8KV contact / ±15KV air discharge  80MHz-2.7GHz, 10V/m, 80% AM  ±2 KV, 5KHz/100KHz  ±2 KV line to earth / ±1 KV line to line  0.15 to 80MHz, 10V, 80% AM  30A/m, 60 Hz,  0% UT, 0.5 cycles, 0-315° 100/240V A  0% UT, 10/12 cycles, 0° 100/240V A  40% UT, 10/12 cycles, 0° 100/240V B  70% UT, 25/30 cycles, 0° 100/240V B
Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight EMC SPECIFICATION: Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity Voltage Dips	prior to output 1 d Connection to ex Single wire curre sense return. Wire each module's or voltage deviation V models and 40 400mV compens 100,000 Hours, N 0.56 Lbs. Open S (IEC 60601-1: EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-5 EN 61000-4-8 EN 61000-4-11	dropping 1%.  ternal 5V bias inhibits output.  nt sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output between modules is 5% for 2.5 through 0 mV for remaining models.  ation of output cable losses  MIL-HDBK-217F, 25° C, GB  Frame/ 0.96 Lbs. Chassis and Cover  -2:2014, 4 <sup>TH</sup> ed./IEC 61000-6-2:200  ±8KV contact / ±15KV air discharge  80MHz-2.7GHz, 10V/m, 80% AM  ±2 KV, 5KHz/100KHz  ±2 KV line to earth / ±1 KV line to line  0.15 to 80MHz, 10V, 80% AM  30A/m, 60 Hz.  0% UT, 0.5 cycles, 0-315° 100/240V A  0% UT, 10/12 cycles, 0° 100/240V A  40% UT, 10/12 cycles, 0° 100/240V B  70% UT, 25/30 cycles, 0° 100/240V B  0% UT, 300 cycles, 0° 100/240V B
Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight EMC SPECIFICATION: Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity Voltage Dips Voltage Interruptions Radiated Emissions	prior to output 1 of Connection to ex Single wire curre sense return. Mir each module's ou voltage deviation V models and 40 400mV compens 100,000 Hours, M 0.56 Lbs. Open S (IEC 60601-1: EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-5 EN 61000-4-11 EN 61000-4-11 EN 61000-4-11 EN 61000-4-11 EN 61000-4-11	dropping 1%.  ternal 5V bias inhibits output.  nt sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output between modules is 5% for 2.5 through 50 mV for remaining models.  ation of output cable losses  MIL-HDBK-217F, 25° C, GB  Frame/ 0.96 Lbs. Chassis and Cover  -2:2014, 4 <sup>TH</sup> ed./IEC 61000-6-2:200 ±8KV contact / ±15KV air discharge  80MHz-2.7GHz, 10V/m, 80% AM  ±2 KV, 5KHz/100KHz ±2 KV line to earth / ±1 KV line to line  0.15 to 80MHz, 10V, 80% AM  30A/m, 60 Hz.  0% U <sub>T</sub> , 0.5 cycles, 0° 100/240V A  0% U <sub>T</sub> , 10/12 cycles, 0° 100/240V A  40% U <sub>T</sub> , 10/12 cycles, 0° 100/240V B  0% U <sub>T</sub> , 25/30 cycles, 0° 100/240V B  Class B
Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight EMCSPECIFICATION: Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity Voltage Dips  Voltage Interruptions Radiated Emissions Conducted Emissions Harmonic Current Emissions	prior to output 1 d Connection to ex Single wire curre sense return. Wire each module's or voltage deviation V models and 40 400mV compens 100,000 Hours, N 0.56 Lbs. Open S (IEC 60601-1: EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-5 EN 61000-4-8 EN 61000-4-11	dropping 1%.  ternal 5V bias inhibits output.  nt sharing with return via negative nimum current share load is 10% of utput current rating. Maximum output between modules is 5% for 2.5 through! 0 mV for remaining models. ation of output cable losses MIL-HDBK-217F, 25° C, GB Frame/ 0.96 Lbs. Chassis and Cover -2:2014, 4 <sup>TH</sup> ed./IEC 61000-6-2:200! ±8KV contact / ±15KV air discharge 80MHz-2.7GHz, 10V/m, 80% AM ±2 KV, 5KHz/100KHz ±2 KV line to earth / ±1 KV line to line 0.15 to 80MHz, 10V, 80% AM 30A/m, 60 Hz. 0% UT, 0.5 cycles, 0-315° 100/240V A 0% UT, 10yles, 0° 100/240V A 40% UT, 10/12 cycles, 0° 100/240V B 70% UT, 25/30 cycles, 0° 100/240V B 0% UT, 300 cycles, 0° 100/240V B

#### **NXT-100 SERIES MECHANICAL SPECIFICATIONS**



ALL DIMENSIONS IN INCHES (mm)

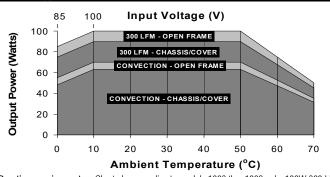
### **CONNECTOR SPECIFICATIONS**



#### APPLICATIONS INFORMATION

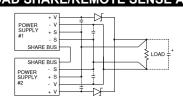
- 1. Continuous Output Power must not exceed 100W.
- Generally, adequate cooling is provided when semiconductor case temperatures do not exceed 70°C rise and transformer temperature does not exceed 60°C rise at any specified ambient temperature.
- Sufficient area must be provided around power supply 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 bandwidth.
- 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 (page 58) for additional load-share applications information.
- P3-2 Load Share Enable and P4-2 Remote Inhibit will share a common negative return pin P3-1.
- 20. Remote Inhibit option will require an outside TTL compatible source.

## MAX P<sub>out</sub> 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 /  $11 \text{N}_{\text{IN}}$  below 100V<sub>IN</sub> and between 100V<sub>IN</sub> and 85V<sub>IN</sub>. Use larger of the two deratings when using chassis/cover below 100V<sub>IN</sub>. Derate output power linearly to 50% between 50° and 70°C.

# TYPICAL LOAD SHARE/REMOTE SENSE APPLICATION



REV. N 06/11/2018