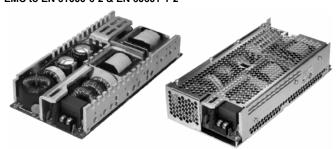
# 400 WATTS

#### 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 SI	PECIFICATIONS	
General		Protection Class: I Overvoltage Category: II Pollution Degree: 2
c <b>711</b> us	Underwriters Laboratories File E137708/E140259	UL 60950-1 2 <sup>nd</sup> Edition, 2007 UL 60601-1 1 <sup>st</sup> Edition, 2006 ANSI/AAMI ES 60601-1, 2005 (5)2012
IECEE Scheme		CB Reports/Certificates (including all National and Group Deviations) IEC 60950-1/A2:2013 IEC 60601-1:1988 +A1:1991 +A2:1995 IEC 60601-1:2005/A1:2012
c <b>711</b> us	UL Recognition Mark for Canada File E137708/E140259	CAN/CSA-C22.2 No. 60950-1-07, 2 <sup>nd</sup> Edition CAN/CSA-C22.2 No. 601-1-M90, 2005 CAN/CSA-C22.2 No. 60601-1:2014
SUD	TUV	EN 60950-1/A2:2013 EN 60601-1/A2:1995 EN 60601-1:2006/A1:2012
CE	Low Voltage Directive RoHS Directive (Recast)	(2014/35/EU of February 2014) (2011/65/EU of June 2011)

## **MODEL LISTING**

OPEN FRAME		CHASSIS/COVER	
300 LFM	CONVECTION COOLED	300 LFM	CONVECTION COOLED
2.5V/80.0A	2.5V/45.0A	2.5V/72.0A	2.5V/40.5A
3.3V/80.0A	3.3V/45.0A	3.3V/72.0A	3.3V/40.5A
5V/80.0A	5V/45.0A	5V/72.0A	5V/40.5A
12V/33.3A	12V/18.8A	12V/29.9A	12V/16.9A
15V/26.7A	15V/15.0A	15V/24.0A	15V/13.5A
24V/16.7A	24V/9.4A	24V/15.0A	24V/8.5A
28V/14.3A	28V/8.0A	28V/12.8A	28V/7.2A
48V/8.3A	48V/4.7A	48V/7.5A	48V/4.2A
	300 LFM 2.5V/80.0A 3.3V/80.0A 5V/80.0A 12V/33.3A 15V/26.7A 24V/16.7A 28V/14.3A	300 LFM CONVECTION COOLED  2.5V/80.0A 2.5V/45.0A 3.3V/80.0A 3.3V/45.0A 5V/80.0A 5V/45.0A 12V/33.3A 12V/18.8A 15V/26.7A 15V/15.0A 24V/16.7A 24V/9.4A 28V/14.3A 28V/8.0A	300 LFM         CONVECTION COOLED         300 LFM           2.5V/80.0A         2.5V/45.0A         2.5V/72.0A           3.3V/80.0A         3.3V/45.0A         3.3V/72.0A           5V/80.0A         5V/45.0A         5V/72.0A           12V/33.3A         12V/18.8A         12V/29.9A           15V/26.7A         15V/15.0A         15V/24.0A           24V/16.7A         24V/9.4A         24V/15.0A           28V/14.3A         28V/8.0A         28V/12.8A

Please refer to Output Power Derating chart.

### ORDERING INFORMATION

Please specify the following optional features when ordering:

CH - Chassis LSEVB - Load Share Evaluation Board

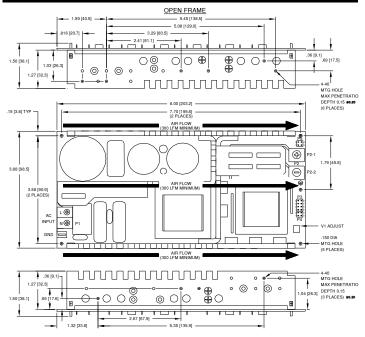
CO - Cover RE - Remote Inhibit

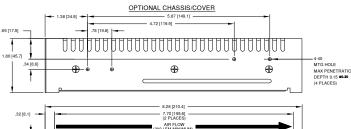
LS - Single Wire Load Sharing

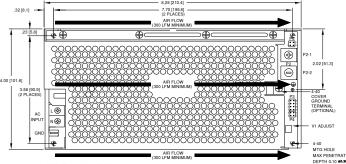
All specifications are maximum at  $25^{\circ}$ C, 400W unless otherwise stated, may vary by model and are subject to change without notice.

Output Power at 50°C  225W Convection Cooled, Open Frame 400W 300 LFM Forced Air, Open Frame 500 General Regulation 50.5% (0-100% load change) 500xcre Voltage 50.50 Course Voltage 50.50 Course Voltage 51.10 M more 100x Course 110% and 150% for rated output volt 51.10 M more 110% and 50.5% (0-100% load change) 500xcre Voltage 52.20 Vill power 1300 M more 110% and 50.5% (0-100% load change) 500xcre Voltage 53.50 Course Voltage 54.50 Course Voltage 55.70 Air Voltage Air Course 110% and 150% for rated output voltage 55% Typical, Full Power, 85-264V Input 500 Course Voltage 55% Typical, Full Power 4 Sec.564 Vill put 500 Course 110 Air Image 110 Air Imag	OUTPUT SPECIFICATION		Commention Co. L. L. C	
Power Devaring 2.5 Woury 1 Vas below 100 Vas Voltage Centering ± 0.5% (50% load)  Voltage Adjust Range 95-105%  Load Regulation 0.5% (50% load)  Source Regulation 0.5% (50% load)  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 step load change, 500µ5 maximum, 4% maximumdev Latching, between 110% and 150% of rated output volt overpower Protection 110-130% rated Pout, cycle on/off, auto recovery Hold Up Time 3 Seconds, 120V Input  Start 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  Frequency Range Information Infernal 10A Time Delay fuse Peak Inrush Current 50A (cold)  Efficiency 85% Typical, Full Power varies by model O.95 (full Power, 230V), 0.98 (Full Power, 120V)  ENVIRONMENTAL SPECIFICATIONS  Ambient Operating 0° C to 1-70° C Derating, See Power Rating Chart  Thermal Shutdown Understand 100 Peaking See Power Rating Chart  Charles Range 10,000 ft. ASL Operating/ 40,000 ft. ASL Non-operating Relative Humidity Range 20,099% (non-condensing)  Altitude 10,000 ft. ASL Operating/ 40,000 ft. ASL Non-operating Relative Humidity Range 20,099% (non-condensing)  Altitude 10,000 ft. ASL Operating/ 40,000 ft. ASL Non-operating Primary to Secondary Department of Condension 10,000 ft. ASL Operating/ 40,000 ft. ASL Non-operating Primary to Ground Delectric Strengthra; Reinforced Insulation Secondary 10 Ground Se	Output Power at 50°C			
Voltage Adust Range 95-105% (0-100% load change) 95-105% (0-100% load change) 95-105% Source Regulation 0.5% Noise 1.0% or 100mV Whichever is greater Turn on Overshoot Turn o				
Voltage Adjust Range				
Load Regulation  0.5% Noise 1.0% or 100mV Whichever is greater Turn on Overshoot None Step load change, 500µS maximum, 4% maximum developed protection Noverpower Protection None Overvoltage Protection Latching, between 110% and 150% of rated output vold 100 verpower Protection None None Voluge Protection None None None Step load change, 500µS maximum, 4% maximum developed protection None None None None None None None No			(50% load)	
Source Regulation  O.5% Noise  1.0% or 100mV Whichever is greater Turn on Overshoot Transient Response  Output recovers to within 1% of initial set point due to. step load change, 500µ2s maximum, 4% maximumdev Overvoltage Protection  1.0-130% rated Pout, cycle or/off, auto recovery 16.16 by Time 16.15 ms min., Full Power, 85-264V Input 1879 Start Up Time 18.5 seconds, 120V Input 1870 Typical Protection 19.10 Typical Protection 110-130% rated Pout, cycle or/off, auto recovery 16.16 ms min., Full Power, 85-264V Input 1870 Typical Protection 19.10 Typical Protection 1				
Noise 1.0% or 100mV Whichever is greater Turn on Overshoot Turn on Overshoot Turn on Overshoot None Ouervoltage Protection Overpower Protection Overpower Protection 110-130% rated Pout, cycle on/off, auto recovery Hold Up Time 15 ms min., Full Power, 85-264V input Start Up Time 3 Seconds, 120V Input INPUT SPECIFICATIONS Source Voltage 85 – 264 Volts AC 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 O.95 (Full Power, 230V), 0.98 (Full Power, 120V) Efficiency 85% Typical, Full Power varies by model O.95 (Full Power, 230V), 0.98 (Full Power, 120V) Efficiency 85% Typical, Full Power varies by model O.95 (Full Power, 230V), 0.98 (Full Power, 120V) Embreal Studdown Unique Voltage is inhibited during excessive internal temperatures, automatic reset. Ambient Storage Temp. Range Operating Relative Humidity Range Operating Relative Humidity Range Operating Relative Humidity Range Operating Relative Coefficient O.02%/FC Vibration 0.02%/FC Vibration 2.5g, 10Hz. – 2KHz per MIL-STD-810F Method 514.5 Ogenerating Automatic reset Operational Insulation(Consult factoryfor IMOOP of 1M Oblectific Strengthin; Reinforced Insulation Operational Insulation Opera		0.5%	(0-100% load change)	
Turn on Overshoot Transient Response Output recovers to within 1% of initial set point due to step load change, 500µS maximum, 4% maximum dev Overvoltage Protection Latching, between 110% and 150% of rated output volt overpower Protection 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 Frequency Range 47 - 63 Hz Input Protection Internal 10A Time Delay fuse Peak Inrush Current Efficiency 85% Typical, Full Power varies by model Power Factor ENVIRONIMENTAL SPECIFICATIONS Ambient Operating Power Factor Environmental Special Systems of Patient Protection Ambient Operating Derating Relative Humidity Range Derating Relative Humidity Range 20-99% one-condensing Altitude 10,000 ft. ASL. Operating/ 40,000 ft. ASL. Non-operat Impurative Coefficient Overwing Shock 200, peak per MitSTD-810F Method 514.5 Shock 201, peak per MitSTD-810F Method 514.5 Shock 202, peak per MitSTD-810F Method 514.5 Shock 203, peak per MitSTD-810F Method 514.5 Shock 204, Power fall Signal University of Ground Secondary to Ground to Grou	Source Regulation			
Transient Response Overvoltage Protection Overpower Protection 110-130% rated Poul, cycle on/off, auto recovery 110		1.0% or 100mV	Whichever is greater	
step load change, 500J.S maximum, 4% maximumdev 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 Frequency Range 47 - 63 Hz Input Protection Internal 10A Time Delay fuse Peak Inrush Current 50A (cold) Internal 10A Time Delay fuse Peak Inrush Current 50A (cold) Internal 10A Time Delay fuse Peak Inrush Current 50A (cold) Sys 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 Output voltage is inhibited during excessive internal temperatures, automatic reset. Ambient Storage Temp. Range 20-90% non-condensing Inflitude 10.00% non-condensing Inflitude 10.00% In .ASL Operating/ 40,000 ft. ASL Non-operat Coefficient 0.02%/°C Ultration 2.59, 10Hz. – 2KHz per MIL-STD-810F Method 514.5 Shock 20g. peak per MIL-STD-810F Method 514.5 GENERAL SPECIFICATIONS Means of Protection Primary to Secondary Primary to Ground 1MOOP (Means of Patient Protection) Derating and Insulation 2545 VDC, Primary to Secondary, 1 Sec. 2545 VDC, Primary to Secondary, 1 Sec. 2545 VDC, Primary to Ground, 1 Sec. 700 VDC, Secondary to Ground, 1 Sec. 1004 NC, <100004 SFC Touch Current 2004 ASFC Conducted Insulation Single wire current sharing with return via negative ser return. Minimum current share load is 10% of each me output current rating, Maximum output voltage deviated between modules is 5% for 2.5 through 5 V models an mV for remaining models.  Standby Power (optional) Solded 5 VDC ± 10%, 10mA available with Remote In Option. Remote Sense 4000W compensation of output cable losses Mean-Time Between Faillures 1000-4-5 ± 2kV Contact/±8kV Air Discharge En/Touch Current 1200-4-6 ± 150 Nome Available with Remote In Option. 4-1 ± 150 Nome Available with Remote In Option. 4-1 ± 150 Nome Available with Remote In Option. 4-1 ± 150 Nome A				
Overpolage Protection Latching, between 110% and 150% of rated output voll Overpower Protection 110-130% rated Pout, cycle onloff, auto recovery 16 me 16 ms min., Full Power, 83-264V Input 18 start Up Time 3 seconds, 120V Input 18 ms min., Full Power, 83-264V Input 3 seconds, 120V Input 18 ms min., Full Power, 83-264V Input 3 seconds, 120V Input 18 ms min., Full Power, 230V, 19 ms	Transient Response			
Overpower Protection 110-130% rated Pout, cycle onloff, autor 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 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 0.95 (Full Power, 230V), 0.98 (Full Power, 120V) Efficiency 9.95 (Full Power, 230V), 0.98 (Full Power, 120V) ENVIRONMENTAL SPECIFICATIONS Ambient Operating 0° C to + 70° C Secondary Internal Shutdown Output voltage is inhibited during excessive internal temperatures, automatic reset. 40° C to + 8° C Operating Relative Humidity Range 20-90% non-condensing Allitude 10,000 ft. ASL Operating/ 40,000 ft. ASL Non-operal Allitude 10,000 ft. ASL Operating/ 40,000 ft. ASL Non-operal Cemperature Coefficient 0.02%/°C 2.5g, 10Hz. – 2KHz per MIL-STD-810F Method 514.5 Shock 20a, peak per MIL-STD-810F Method 514.5 Shock 20a, peak per MIL-STD-810F Method 516.5 GENERAL SPECIFICATIONS (ASS)		step load change,	, 500µS maximum, 4% maximum deviation	
Hold Up Time   16 mS min., Full Power, 85-264V Input   INPUT SPECIFICATIONS	Overvoltage Protection	Latching, between	n 110% and 150% of rated output voltage	
Start Up Time	Overpower Protection	110-130% rated F	Pout, cycle on/off, auto recovery	
INPUT SPECIFICATIONS	Hold Up Time	16 mS min., Full I	Power, 85-264V Input	
Source Voltage Frequency Range July Protection Peak Inush Current Fold (cold) Feliciency Fower Factor Fower Factor Femperature Range Thermal Shuldown Finance Range Departing Relative Humidity Range Departing Relative Humidity Range Departing Relative Coefficient Vibration Fibro Scondary Primary to Secondary Primary to Secondary Primary to Secondary Primary to Ground Secondary to Ground Secondary to Ground Secondary to Ground Secondary to Ground Selectic Strengthras Earth Leakage Truch Current Forwer Fall Signal Leakage Cyperating Signal Leakage Cyperating Signal Leakage Cyperating Signal Leakage Cyperating Fower Fall Signal Leakage Cyperating Leakage Cyperating Fower Fall Signal Leakage Leakage Cyperating Leakage Cyperating Leakage Cyperating Leakage Cyperating Leakage Leak	Start Up Time	3 Seconds, 120V	Input	
Source Voltage Frequency Range July Protection Peak Inush Current Fold (cold) Feliciency Fower Factor Fower Factor Femperature Range Thermal Shuldown Finance Range Departing Relative Humidity Range Departing Relative Humidity Range Departing Relative Coefficient Vibration Fibro Scondary Primary to Secondary Primary to Secondary Primary to Secondary Primary to Ground Secondary to Ground Secondary to Ground Secondary to Ground Secondary to Ground Selectic Strengthras Earth Leakage Truch Current Forwer Fall Signal Leakage Cyperating Signal Leakage Cyperating Signal Leakage Cyperating Signal Leakage Cyperating Fower Fall Signal Leakage Cyperating Leakage Cyperating Fower Fall Signal Leakage Leakage Cyperating Leakage Cyperating Leakage Cyperating Leakage Cyperating Leakage Leak	INPUT SPECIFICATION	IS		
Frequency Range pput Protection Internal 10A Time Delay fuse Peak Inrush Current 50A (cold) Efficiency 85% Typical, Full Power varies by model 9.90 (Full Power, 230V), 0.98 (Full Power, 120V) Efficiency 0.95 (Full Power, 230V), 0.98 (Full Power, 120V) ENVIRONIMENTAL SPECIFICATIONS Ambient Operating 0° C to + 70° C Derating: See Power Rating Chart Thermal Shutdown Output voltage is inhibited during excessive internal temperatures, automatic reset.  Ambient Storage Temp. Range 20-90% non-condensing Altitude 10,000 ft. ASL Operating 40,000 ft. ASL Non-operal Temperature Coefficient 0.02%/°C 10 + 85° C 200, peak per MIL-STD-810F Method 514.5 Shock 200, per storaght to Ground 200, per ational Insulation 24545 VDC, Primary to Ground, 1 Sec. 2000 Shock 2000 S			2	
Injust Protection Internal 10A Time Delay fuse Peak Inrush Current 50A (cold) Peak Inrush Current 50A (cold) Power Factor 0.95 (Full Power, 230V), 0.98 (Full Power, 120V) ENVIRONMENTAL SPECIFICATIONS Ambient Operating 0° C to + 70° C Derating: See Power Rating Chart Output voltage is inhibited during excessive internal temperatures and temperatures, automatic reset. Ambient Storage Temp. Range 2.90% non-condensing Altitude 10.000 ft. ASL Operating/ 40,000 ft. ASL Non-operal femperature Coefficient 0.02%/°C Vibration 2.5g, 10Hz. – 2KHz per MitL-STD-810F Method 514.5 Shock 20g, peak per MitL-STD-810F Method 516.5 GENERAL SPECIFICATIONS Weans of Protection Primary to Secondary to Ground Secondary to Ground Secondary to Ground Secondary to Ground Operational Insulation 2545 VDC, Primary to Secondary 1 Sec. 2545 VDC, Primary to Ground, 1 Sec. Operational Insulation 2545 VDC, Primary to Ground, 1 Sec. 1004 NC, <50004 SFC 1005 NC (and share (optional) Single wire current sharing with return via negative ser return. Minimum current share load is 10% of each moutput current rating, Maximum output voltage deviality between modules is 5% for 2.5 through 5 V models and mV for remaining models.  Standby Power (optional) Single wire current sharing with return via negative ser return. Minimum current share load is 10% of each moutput current rating, Maximum output voltage deviality between modules is 5% for 2.5 through 5 V models and mV for remaining models.  Standby Power (optional) Single wire current sharing with return via negative ser return. Minimum current share load is 10% of each moutput current rating. Maximum output voltage deviality between modules is 5% for 2.5 through 5 V models and mV for remaining models.  Standby Power (optional) Single wire current sharing with return via negative ser return. Minimum current sh				
Peak Inrush Current  50A (cold)  85% Typical, Full Power varies by model Power Factor  O.95 (Full Power, 230V), 0.98 (Full Power, 120V)  ENVIRONMENTAL SPECIFICATIONS  Ambient Operating  O' C to + 70° C  Deraperature Range  Derating: See Power Rating Chart  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-operal Temperature Coefficient  0.02%/°C  Ultration  Shock  20g. peak per MIL-STD-810F Method 514.5  See Name of Protection  Primary to Secondary  Primary to Ground Secondary to Ground Secondary to Ground Dielectric Strengthr(2)  Reinforced Insulation  Operational Insulation  Operational Insulation  Operational Insulation  Caskage Current  Earth Leakage  Touch Current  - Capic low with input power failure 10 ms minimum prio output 1 dropping 1%.  Remote Inhibit (optional)  Load Share (optional)  Standby Power (optional)			Delay fuse	
Efficiency Power Factor O.95 (Full Power, 230V), 0.98 (Full Power, 120V) ENVIRONMENTAL SPECIFICATIONS Ambient Operating O° C to + 70° C Derating: See Power Rating Chart Thermal Shutdown Dutput voltage is inhibited during excessive internal temperatures, automatic reset. Ambient Storage Temp. Range Operating Relative Humidity Range 20-90% non-condensing Allitude 10,000 ft. ASL Operating/ 40,000 ft. ASL Non-operat Vibration 2, 5g, 10Hz. – 2KHz per MIL-STD-810F Method 514.5 Shock Ogenerature Specification Vibration Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strengthres Reinforced Insulation Operational Insulation Basic Insulation Operational Insu			C Delay luse	
Power Factor 0,95 (Full Power, 230V), 0,98 (Full Power, 120V)  ENVIRONMENTAL SPECIFICATIONS  Ambient Operating 0° C to + 70° C Derating: See Power Rating Chart  Output voltage is inhibited during excessive internal temperatures, automatic reset.  Ambient Storage Temp. Range 20-90% non-condensing Altitude 10,000 ft. ASL Operating/ 40,000 ft. ASL Non-operal Temperature Coefficient 002%/°C  Vibration 2.5q, 10Hz. – 2KHz per MIL-STD-810F Method 514.5  Spenkers of Protection  Primary to Secondary 2000 (Means of Patient Protection)  Primary to Ground 3000 (Means of Operator Protection)  Primary to Ground 3000 (Means of Operator Protection)  Pace of Course of Secondary 2000 (Means of Operator Protection)  Poperational Insulation 5666 VDC, Primary to Secondary, 1 Sec.  Power Fall Signal 2000 (Annual Secondary to Ground, 1 Sec.  Power Fall Signal 2001 (Annual Secondary to Ground)  Semole Inhibit (optional) 3000 (Annual Secondary to Ground)  Solated. Contact closure inhibits output.  Single wire current share load is 10% of each moutput current rating, Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models an mV for remaining models.  Standby Power (optional) 3000 (Annual Sec. 265 VDC, 2000 (Annual Sec. 265 VDC, 2000 (Annual Sec. 265 VDC)  Remote Sense 4000mV compensation of output cable losses well-main metalic Place of the Course of Cou			Dower varies by model	
### ENVIRONMENTAL SPECIFICATIONS  ### Ambient Operating    Or C to + 70° C	3	0.0% (Full Davis	220\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
Ambient Operating Temperature Range Temperature Range Derating: See Power Rating Chart Thermal Shutdown  Ambient Storage Temp. Range Departing Relative Humidity Range Uniformation Uniform				
Temperature Range Thermal Shutdown  Derating: See Power Rating Chart Output voltage is inhibited during excessive internal temperatures, automatic reset.  Ambient Storage Temp. Range Operating Relative Humidity Range Derating Relative Humidity Range 10,000 ft. ASL Operating/ 40,000 ft. ASL Non-operal 10,000 ft. ASL Non-operal 11,000 ft. ASL Non-operal 11			15	
Comparison of Primary to Secondary Primary to Ground Secondary to Ground Secondary Institution (Consult factory for Primary to Secondary Primary to Ground Secondary Institution (Consult factory for Primary to Secondary Primary to Ground Secondary Institution (Consult factory for Primary to Secondary Primary to Ground Secondary Institution (Consult factory for Money Fail Signal Current Earth Leakage Touch Current (Consult factory for Primary to Ground Secondary Institution (Consult factory for Money Fail Signal Content (Consult fail Fail Fail Fail Fail Fail Fail Fail F				
temperatures, automatic reset.  Ambient Storage Temp. Range Operating Relative Humidity Range 20-90% non-condensing 10,000 ft. ASL Operating/ 40,000 ft. ASL Non-operat 10,000 ft. ASL Operating/ 40,000 ft. ASL Non-operating/ 40,000 ft. ASL Operating/ 40,000 ft. ASL Non-operating/ 40,000 ft. ASL N		Derating: See Por	wer Rating Chart	
Ambient Storage Temp. Range Operating Relative Humidity Range 10,000 ft. ASL Operating/ 40,000 ft. ASL Non-operal 10,000 ft. ASL Operating/ 40,000 ft. ASL Non-operating/ 40,0	Thermal Shutdown			
Departing Relative Humidity Range   20-90% non-condensing   10,000 ft. ASL   Non-operat   10,0				
Departing Relative Humidity Range   20-90% non-condensing   10,000 ft. ASL   Non-operal   10,0	Ambient Storage Temp. Range			
Altitude 10,000 ft. ASL Operating/ 40,000 ft. ASL Non-operal Cemperature Coefficient 0.02%/°C vibration 2.5g, 10Hz. – 2KHz per MIL-STD-810F Method 514.5 Shock 20g, peak per MIL-STD-810F Method 514.5 30g. peak per MIL-STD-810F Method 514.5 20g. pe	Operating Relative Humidity Range	20-90% non-cond	densing	
Temperature Coefficient  O.02%/°C  Z.5g, 10Hz. – 2KHz per MIL-STD-810F Method 514.5  Shock  GENERAL SPECIFICATIONS  Weans of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(r2) Reinforced Insulation Operational		10,000 ft. ASL O	perating/ 40,000 ft. ASL Non-operating	
Vibration  2.5g, 10Hz. – 2KHz per MIL-STD-810F Method 514.5  20g, peak per MIL-STD-810F Method 516.5  GENERAL SPECIFICATIONS  Weans of Protection Primary to Secondary Primary to Ground Secondary to Ground Secondary to Ground Dielectric Strength;; Reinforced Insulation Basic Insulation Operational Insulation Coperational Insulation Earth Leakage Touch Current Earth Leakage Touch Current Earth Leakage Touch Current Earth Leakage Touch Current Earth Signal Conducted Enissions  Standby Power (optional)  EEFT/Bursts  EN 61000-4-2  EN 61000-4-3  EN 61000-4-4  EN 6500122  EN 61000-4-1  EN 61000-4-1  EN 61000-4-1  EN 65001122, Class B  FCC Part 15  EN 55011/22, Class B  FCC Part 15  EN 61000-4-1  EN 61000-4-1  EN 61000-4-1  EN 61000-4-1  EN 61000-4-1  EN 61000-4-1  EN 650011/22, Class B  FCC Part 15  EN 65001/22, Class B  FCC Part 15	Temperature Coefficient			
Shock GENERAL SPECIFICATIONS  Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strengthr <sub>12</sub> ) Reinforced Insulation Basic Insulation Coperational Insulation			Hz ner MII -STD-810F Method 514 5	
Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Secondary to Ground Dielectric Strength(12) Reinforced Insulation Operational Insulation(Consult factory for 1MOOP or 1M Operational Insulation (Consult factory for 1 MooP or 1M Operational Insulation (Consult factory for 1 MooP or 1M Operational Insulation (Consult factory for 1 MooP or 1M Operational Insulation (Consult factory f		20g, roriz. ZKI	CTD 010E Mothod 514.5	
Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Secondary to Ground Dielectric Strength <sub>(12)</sub> Reinforced Insulation Basic Insulation Operational Insulation Dielectric Strength <sub>(12)</sub> Reinforced Insulation Basic Insulation Operational Insulation Coperational Insulation Dielectric Strength <sub>(12)</sub> Reinforced Insulation Basic Insulation Operational Insulation(Consult factory for 1MOOP or 1M Operational Insulation Operational Insulation(Consult Insulation (Consult Insulation) Operational Insulation Operational Insulation Operational Insulation(Consult Insulation (Consult Insulation (Consult Insulation) Operational Insulation Operational Insulation Operational Insulation(Consult Insulation (Consult Insulation) Operational Insulation(Consult Insulation (Consult Insulation (Consult Insulation) Operational Insulation Operational Insulation Operational Insulation Operational Insulation(Consult Insulation (Consult Insulation) Operational Insulation (Consult Insulation (Consult Insulation) Operational Insulation Operational	GENERAL SPECIFICAT	TIONS		
Primary to Secondary Primary to Ground Secondary to Ground Secondary to Ground Secondary to Ground Secondary to Ground Operational Insulation(Consult factory for 1MOOP or 1M Dielectric Strength(12) Reinforced Insulation Basic Insulation Operational Insulation Operational Insulation Operational Insulation Operational Insulation Secondary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec. 1000A NC, <5000A SFC 1000A SFC 1000A NC, <5000A SFC 1000A SFC 1000A NC, <5000A SFC 1000A NC, <5000A SFC 1000A SFC 1000A NC, <5000A SFC 1000A NC, <5000A SFC 1000A SFC 1000A NC, <5000A NC, <500A NC, voterinary to Ground, 1 Sec. 1000A NC, <5000A NC, voterinary to Ground, 1 Sec. 1000A NC, <5000A SFC 1000A NC, <500A NC, voterinary to Ground, 1 Sec. 1000A NC, <500A NC, voterinary to Ground, 1 Sec. 1000A NC, voterinary to Ground, 1 Sec. 1000A NC, voterinary to Ground, 1 Sec. 1000A NC, voterinary to Groun				
Primary to Ground Secondary to Ground Operational Insulation (Consult factory for 1MOOP or 1M Operation Insulation (Consult factory for 1MOOP or 1MOOP		2MOPP (Means o	of Patient Protection)	
Secondary to Ground  Dielectric Strengthr(2)  Reinforced Insulation Basic Insulation Operational Insulation Operational Insulation Secondary, 1 Sec. Operational Insulation Operational Insecurce Insuin, Insuin, Insuin, Insuin, Insuin, Insuin, Insuin, In				
Dielectric Strength(12) Reinforced Insulation Basic Insulation Operational Insulation Operational Insulation Tot VDC, Secondary to Ground, 1 Sec. 2545 VDC, Primary to Ground, 1 Sec. 2545 VDC, Secondary to Ground, 1 Sec. 2545 VDC, Primary to Ground, 1 Sec. 2545 VDC, Secondary to Ground, 1 Sec. 2545 VDC, 10004 SFC 2546 VDC, Primary to Ground, 1 Sec. 2545 VDC, Primary to Ground, 1 Sec. 2545 VDC, 10004 SFC 2546 VDC, Primary to Ground, 1 Sec. 2545 VDC, Primary to Ground, 1 Sec. 2545 VDC, 10004 SFC 2546 VDC, Primary to Ground, 1 Sec. 2545 VDC, 10004 SFC 2546 VDC, Primary to Ground, 1 Sec. 2545 VDC, 10004 SFC 2546 VDC, Primary to Ground, 1 Sec. 2545 VDC, 10004 SFC 2546 VDC, Primary to Ground, 1 Sec. 2545 VDC, 10004 SFC 2546 VDC, Primary to Ground, 1 Sec. 2546 VDC, 10004 SFC 2546 VDC, 10004 SPC 25				
Reinforced Insulation Basic Insulation Operational Insulation Operational Insulation  Earth Leakage Touch Current Earth Leakage Touch Current  Remote Inhibit (optional) Load Share (optional)  Standby Power (optional)  Standby				
Basic Insulation Operational Insulation Operational Insulation Operational Insulation Operational Insulation Operational Insulation  Earth Leakage Touch Current  Earth Leakage Touch Current  Power Fail Signal  Conducted Immunity Voltage Interruptions  En 61000-4-11 Earth Leakage Touch Current  SanouA NC, <1000uA SFC  100uA NC, <500uA SFC  100uA NC, <100uA NC, <500uA SFC  100uA Nc, 500uA SFC  100uA Nc, 50uA SFC  100uA Nc, 500uA SPC  100uA Nc, 500uA Secucion, 50uA Secucion, 50uA Secucion, 50uA Secucion, 50uA Secucion, 50uA Secucion, 50u		5656 VDC. Prima	iry to Secondary, 1 Sec.	
Operational Insulation  Total Current Earth Leakage Touch Current Earth Leakage Touch Current  Power Fail Signal  Logic low with input power failure 10 ms minimum prio output 1 dropping 1%.  Remote Inhibit (optional)  Load Share (optional)  Load Share (optional)  Load Share (optional)  Single wire current sharing with return via negative ser return. Minimum current share load is 10% of each mooutput current rating. Maximum output voltage deviatic between modules is 5% for 2.5 through 5 V models an mV for remaining models.  Standby Power (optional)  Isolated 5 VDC ± 10%, 10mA available with Remote In Option.  Remote Sense  400mV compensation of output cable losses Weight  100,000 Hours min., MIL-HDBK-217F, 25° C, GB  2.65 Lbs. Open Frame/ 3.60 Lbs. Chassis and Cover  ELECTROMAGNETIC COMPATIBILITY SPECIFICATIONS  Electrostatic Discharge  Rof1000-4-3  En 61000-4-3  En 61000-4-4  EN 61000-4-4  EN 61000-4-5  EN 61000-4-5  EN 61000-4-1  EN 61000-4-1  Solution to Earth/±1 kV Line to L  Conducted Immunity  EN 61000-4-1  FN 61000-4-1  Solution to Ground, 1 Sec.  Logic Low with input power failure 10 ms minimum prio output.  Solution to grad in put in put power failure 10 ms minimum prio output.  Solution to grad in put in put power failure 10 ms minimum prio output.  Solution to grad in put in put power failure 10 ms minimum prio output.  Solution to grad in put in put power failure 10 ms minimum prio output output output.  Solution 10 ms minimum prio output output output ser return. Minimum prio output output output output output output output ser return. Minimum prio output output output output ser return. Minimum prio output output ser return sharing with return via negative ser return. Minimum prio output output ser return sharing with return via negative ser return. Minimum prio output cable losses  For Noad Solution 10 ms minimum prio output				
Leakage Current Earth Leakage Touch Current Touch Current Touch Current Touch Current Touch Current Touch Current  Logic low with input power failure 10 ms minimum prio output 1 dropping 1%.  Remote Inhibit (optional) Load Share (optional)  Load Contact (losure inhibits output.  Load Share (optional)  Load Contact (losure inhibits output.  Load Share (optional)  Load Share (optional)  Load Share (load in put in put valage each output outpu				
Earth Leakage Touch Current	eakage Current	707 100, 0000110	dary to Ground, 1 566.	
Touch Current  Power Fail Signal Logic low with input power failure 10 ms minimum prio output 1 dropping 1%. Remote Inhibit (optional) Isolated. Contact closure inhibits output. Single wire current sharing with return via negative ser return. Minimum current share load is 10% of each mo output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models an mV for remaining models. Standby Power (optional) Isolated 5 VDC ± 10%, 10mA available with Remote In Option. Remote Sense 400mV compensation of output cable losses Mean-Time Between Failures Mean-Time Between Failures Meight 2.65 Lbs. Open Frame/ 3.60 Lbs. Chassis and Cover ELECTROMAGNETIC COMPATIBILITY SPECIFICATIONS Electrostatic Discharge Radiated Electromagnetic Field EN 61000-4-2 EN 61000-4-2 ±6kV Contact/ ±8kV Air Discharge Radiated Electromagnetic Field EN 61000-4-3 80-2500MHz, 10V/m, 80% AM EFT/Bursts EN 61000-4-5 ±2 kV Line to Earth/ ±1 kV Line to L Conducted Immunity EN 61000-4-8 30A/m, 50/60 Hz. Voltage Dips Folion-4-11 Folion-4-11 95% Reduction, 1s (Criteria B) Voltage Interruptions EN 61000-4-11 EN 65011/22, Class B FCC Part 15		<300µA NC. <100	OOUA SEC	
Logic low with input power failure 10 ms minimum prio output 1 dropping 1%.  Remote Inhibit (optional)  Load Share (optional)  Load Share (optional)  Load Share (optional)  Single wire current sharing with return via negative set return. Minimum current share loads to not put				
output 1 dropping 1%.  Remote Inhibit (optional)  Load Share (optional)  Load Share (optional)  Single wire current sharing with return via negative ser return. Minimum current share load is 10% of each mo output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models an mV for remaining models.  Standby Power (optional)  Remote Sense  400mV compensation of output cable losses  Mean-Time Between Failures  Meight  2.65 Lbs. Open Frame/ 3.60 Lbs. Chassis and Cover  ELECTROMAGNETIC COMPATIBILITY SPECIFICATIONS  Electrostatic Discharge  EN 61000-4-2  EN 61000-4-2  EN 61000-4-3  EFT/Bursts  EN 61000-4-4  EV Voltage EN 61000-4-5  EV Voltage Dips  EN 61000-4-1  EN 61000-4-1  EN 61000-4-1  Single wire current sharing with return via negative ser return. Minimum current share long with return via negative ser return. Minimum current share long with return via negative ser return. Minimum current sharing with return via negative ser return. Minimum current sharing with return via negative ser return. Minimum current sharing with return via negative ser return. Minimum current sharing with return via negative ser return. Minimum current sharing with return via negative ser return. Minimum current sharing with return via negative ser return. Minimum current sharing with return via negative ser return. Minimum current sharing with return. Maximum current sharing with return. Maximum current sharing with return. Maximum current sharing with returalities.  Extending with returality of each state in the provide st		Logic low with inn	out nower failure 10 ms minimum prior to	
Remote Inhibit (optional)  Load Share (optional)  Load Share (optional)  Single wire current sharing with return via negative set return. Minimum current share load is 10% of each mo output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models an mV for remaining models.  Standby Power (optional)  Isolated 5 VDC ± 10%, 10mA available with Remote In Option.  Remote Sense  400mV compensation of output cable losses  Mean-Time Between Failures  400mV compensation of output cable losses  Mean-Time Between Failures  400mV compensation of output cable losses  Mean-Time Between Failures  400mV compensation of output cable losses  Mean-Time Between Failures  400mV compensation of output cable losses  Mean-Time Between Failures  400mV compensation of output cable losses  Mean-Time Between Failures  400mV compensation of output cable losses  Mean-Time Between Failures  400mV compensation of output cable losses  400mV compens	rowei Fali Signal			
Single wire current sharing with return via negative ser return. Minimum current sharing with return via negative ser return. Minimum current sharing with return via negative ser return. Minimum current share load is 10% of each mo output current rating. Maximum output voltage deviatic between modules is 5% for 2.5 through 5 V models an mV for remaining models.  Standby Power (optional)  Isolated 5 VDC ± 10%, 10mA available with Remote In 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 61000-4-3  EN 61000-4-3  EN 61000-4-3  EN 61000-4-4  EN 61000-4-4  EN 61000-4-5  EN 61000-4-5  EN 61000-4-6  It to 80MHz, 10V/m, 80% AM  Magnetic Field Immunity  EN 61000-4-1  FN 61000-4-11  Sow Dip, 500ms  60% Reduction, 1s (Criteria B)  Voltage Interruptions  EN 61000-4-11  EN 55011/22, Class B  FCC Part 15  Conducted Emissions  EN 55011/22, Class B  FCC Part 15	Daniel Inhihit (anti-nal)			
return. Minimum current share load is 10% of each mo output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models and mV for remaining models.  Standby Power (optional)  Isolated 5 VDC ± 10%, 10mA available with Remote In 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/ ±8kV Air Discharge  Radiated Electromagnetic Field  EN 61000-4-3  EN 61000-4-4  ±2 kV  Surges  EN 61000-4-4  ±2 kV Line to Earth/ ±1 kV Line to L  Conducted Immunity  EN 61000-4-1  FN 61000-4-1  FN 61000-4-1  Soloms  60% Reduction, 1s (Criteria B)  Voltage Interruptions  EN 61000-4-11  FCC Part 15  Conducted Emissions  EN 55011/22, Class B  FCC Part 15	Remote innibit (optional)			
output current rating. Maximum output voltage deviation between modules is 5% for 2.5 through 5 V models and mV for remaining models.  Standby Power (optional)  Remote Sense  400mV compensation of output cable losses  Mean-Time Between Failures  Meight  2.65 Lbs. Open Frame/ 3.60 Lbs. Chassis and Cover  ELECTROMAGNETIC COMPATIBILITY SPECIFICATIONS  Electrostatic Discharge  EN 61000-4-2  EN 61000-4-2  EN 61000-4-3  EN 61000-4-4  ET/Bursts  EN 61000-4-4  EN 61000-4-5  EN 61000-4-5  EN 61000-4-5  EN 61000-4-6  Is to 80MHz, 10V, 80% AM  Magnetic Field Immunity  EN 61000-4-1  Sold Lbs. Chassis and Cover  ELECTROMAGNETIC COMPATIBILITY SPECIFICATIONS  Electrostatic Discharge  EN 61000-4-2  EN 61000-4-3  EN 61000-4-3  EN 61000-4-4  EV V. Line to Earth/ ±1 kV. Line to L.  Conducted Immunity  EN 61000-4-6  Is to 80MHz, 10V, 80% AM  Magnetic Field Immunity  EN 61000-4-11  Sold Dip. 500ms  60% Reduction, 1s (Criteria B)  Voltage Interruptions  EN 61000-4-11  Sold Reduction, 5s  EN 65011/22, Class B  FCC Part 15  Conducted Emissions  EN 55011/22, Class B  FCC Part 15	Loau Snare (optional)			
between modules is 5% for 2.5 through 5 V models an mV for remaining models.  Isolated 5 VDC ± 10%, 10mA available with Remote In 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/ ±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 L  Conducted Immunity EN 61000-4-6 .15 to 80MHz, 10V, 80% AM  Magnetic Field Immunity 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, Class B  FCC Part 15				
mV for remaining models.  Standby Power (optional)  Isolated 5 VDC ± 10%, 10mA available with Remote In Option.  Remote Sense  400mV compensation of output cable losses  Mean-Time Between Failures  Meight  2.65 Lbs. Open Frame/ 3.60 Lbs. Chassis and Cover  ELECTROMAGNETIC COMPATIBILITY SPECIFICATIONS  Electrostatic Discharge  EN 61000-4-2  E6kV Contact/ ±8kV Air Discharge  Radiated Electromagnetic Field  EN 61000-4-3  E7F/Bursts  EN 61000-4-3  EN 61000-4-5  E2 kV Line to Earth/ ±1 kV Line to L  Conducted Immunity  EN 61000-4-6  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  EN 55011/22, FCC Part 15  Conducted Emissions  EN 55011/22, Class B FCC Part 15				
Standby Power (optional)  Isolated 5 VDC ± 10%, 10mA available with Remote In Option.  Remote Sense  400mV compensation of output cable losses  400mV compensation of output cable losses  400mV compensation of output cable losses  100,000 Hours min., MIL-HDBK-217F, 25° C, GB  2.65 Lbs. Open Frame/ 3.60 Lbs. Chassis and Cover  ELECTROMAGNETIC COMPATIBILITY SPECIFICATIONS  Electrostatic Discharge  EN 61000-4-2  E6kV Contact/ ±8kV Air Discharge  EN 61000-4-3  E7F/Bursts  EN 61000-4-3  E7F/Bursts  EN 61000-4-4  EV V Line to Earth/ ±1 kV Line to L  Conducted Immunity  EN 61000-4-5  EN 61000-4-6  I5 to 80MHz, 10V, 80% AM  Magnetic Field Immunity  EN 61000-4-11  EN 61000-4-11  EN 61000-4-11  FS% Dip, 10ms  30% Dip, 500ms  60% Reduction, 1s (Criteria B)  Voltage Interruptions  EN 61000-4-11  EN 55011/22, Class B  ECC Part 15				
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/ ±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 L  Conducted 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, Class B FCC Part 15	01 11 12 11 11			
Remote Sense  Mean-Time Between Failures  Meight  Do,000 Hours min., MIL-HDBK-217F, 25° C, GB  Refight  COMPATIBILITY SPECIFICATIONS  Electrostatic Discharge  EN 61000-4-2  EFT/Bursts  EN 61000-4-3  EN 61000-4-4  EN 61000-4-4  EN 61000-4-5  EN 61000-4-5  EN 61000-4-6  EN 61000-4-1	Standby Power (optional)		10%, 10mA available with Remote Inhib	
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/ ±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 L           Conducted Immunity         EN 61000-4-6         .15 to 80MHz, 10V, 80% AM           Magnetic Field Immunity         EN 61000-4-1         95% Dip, 10ms           Voltage Dips         EN 61000-4-11         95% Dip, 10ms           Moltage Interruptions         EN 61000-4-11         95% Reduction, 1s (Criteria B)           Voltage Interruptions         EN 55011/22, Class B         Class B           Conducted Emissions         EN 55011/22, Class B         Class B				
Weight         2.65 Lbs. Open Frame/ 3.60 Lbs. Chassis and Cover           ELECTROMAGNETIC COMPATIBILITY SPECIFICATIONS           Electrostatic Discharge         EN 61000-4-2         ±6kV Contact/ ±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 L           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		400mV compensa	ation of output cable losses	
ELECTROMAGNETIC COMPATIBILITY SPECIFICATIONS           Electrostatic Discharge         EN 61000-4-2         ±6kV Contact/ ±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 L           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	Mean-Time Between Failures			
ELECTROMAGNETIC COMPATIBILITY SPECIFICATIONS           Electrostatic Discharge         EN 61000-4-2         ±6kV Contact/ ±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 L           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				
Electrostatic 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 L           Conducted Immunity         EN 61000-4-6         .15 to 80MHz, 10V, 80% AM           Wagnetic 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				
EFT/Bursts         EN 61000-4-4         ±2 kV           Surges         EN 61000-4-5         ±2 kV Line to Earth/±1 kV Line to L           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				
EN 61000-4-5   ±2 kV Line to Earth/ ±1 kV Line to Li				
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, 1s (Criteria B)           Radiated Emissions         EN 55011/22, FCC Part 15         Class B           Conducted Emissions         EN 55011/22, FCC Part 15         Class B				
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, 1s (Criteria B)           Radiated Emissions         EN 55011/22, FCC Part 15         Class B           Conducted Emissions         EN 55011/22, FCC Part 15         Class B				
Voltage Dips	Conducted immunity			
30% Dip, 500ms   60% Reduction, 1s (Criteria B)	viagnetic Field Immunity			
60% Reduction, 1s (Criteria B)	Voltage Dips	EN 61000-4-11		
Voltage Interruptions         EN 61000-4-11         95% Reduction, 5s           Radiated Emissions         EN 55011/22, Class B           FCC Part 15           Conducted Emissions         EN 55011/22, FCC Part 15           FCC Part 15				
Radiated Emissions         EN 55011/22, Class B FCC Part 15           Conducted Emissions         EN 55011/22, Class B FCC Part 15				
Radiated Emissions         EN 55011/22, FCC Part 15         Class B           Conducted Emissions         EN 55011/22, Class B         Class B           FCC Part 15         FCC Part 15			95% Reduction, 5s	
FCC Part 15           Conducted Emissions         EN 55011/22, Class B           FCC Part 15		FN 55011/22.	Class B	
Conducted Emissions EN 55011/22, Class B FCC Part 15	Radiated Emissions			
FCC Part 15	Radiated Emissions			
		FCC Part 15	Class B	
		FCC Part 15 EN 55011/22,	Class B	
Voltage Fluctuations and Flicker EN 61000-3-3 Compliance	Conducted Emissions	FCC Part 15 EN 55011/22, FCC Part 15		

#### **NXT-400 SERIES MECHANICAL SPECIFICATIONS**







#### CONNECTOR SPECIFICATIONS

SI

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SI

INHIBIT RTN

P1 ⊕⊕ ∟ N	AC Input	Terminal block with 6-32 screws on 0.325 centers mates with #6, spade terminals. (8 in-lb max)
P2 DUTPUT 1 (-)	DC Output	10-32 screw down terminal mates with #10 ring tongue terminal. (10 in-lb Max)
P3  SHARE BUS 4  ENABLE 3  DUTPUT 1 (+) 2  ENABLE (+) 1  ENABLE (-) 7  SENSE (-) 6  OUTPUT 1 (-) 2  SENSE (-) 5  SENSE (-)	Load Share, Sense	.100 friction lock header mates with Molex 22-55-2081 or equivalent crimp terminal housing with Molex 71851 or equivalent crimp terminal.
P4 2.F. RTN 2	Power Fail	.100 friction lock header mates with Molex 22-55-2041 or equivalent crimp terminal housing with Molex 71851 or crimp equivalent terminal.

Inhibit,

Power

Ground

Standby

.100 friction lock header mates with

Molex 22-55-2041 or equivalent crimp

terminal housing with Molex 71851 or

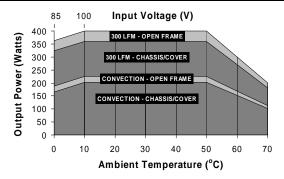
equivalent crimp terminal.

.187 quick disconnect terminal.

#### APPLICATIONS INFORMATION

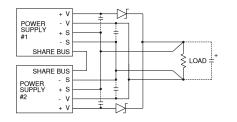
- Sufficient area must be provided around power supply to allow natural movement of air to develop in convection cooled applications.
- 300 linear feet per minute (minimum) of airflow must be maintained along all outside surfaces of exposed heatsinks or chassis. See recommended air flow diagram as a guideline.
- Generally, adequate cooling is provided when semiconductor case temperatures do not exceed 75° C rise and transformer temperature does not exceed 80° C rise at any specified ambient temperature.
- 4. 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. Common RF shielding precautions may need to be taken to assure emissions compliance. Refer to operating instructions for additional information.
- 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 the end product.
- 6. Low forward voltage drop oring diodes must be used in all load sharing applications in 2.5 through 15 Volt models. Oring diodes must be used on 24 through 48 Volt 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.
- Current carrying conductors in load sharing applications must be short and symmetrical. Remote sense conductors should be a twisted pair. The use of an appropriately rated low impedance capacitor across the load will increase noise immunity.
- Refer to Load Share Evaluation Board data sheet (page 58) for additional load share applications information.
- 9. Remote sense terminals may be used to compensate for cable losses up to 400 mV depending on model. The use of a twisted pair, decoupling capacitors and an appropriately rated low impedance capacitor connected across the load will increase noise immunity.
- 10. A load equal to 5% rated output power must be maintained when using standby power option. An external electrolytic capacitor across standby power output may be used to improve transient response.
- 11. 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, 20 MHz bandwidth.
- 12. 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.
- 13. 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.
- 14. Maximum screw penetration into bottom chassis mounting holes is .100 inches.
- 15. Maximum screw penetration into side chassis mounting holes is .150 inches.
- 16. To comply with emissions specifications, all five mounting hole pads must be electrically connected to a common metal chassis. Chassis/cover option recommended and should be grounded.

#### MAX Pout vs. AMBIENT TEMPERATURE/INPUT VOLTAGE



Derating requirements – Chart above applies to models 1003 thru 1008 only. 400 Watts 300 LFM forced air, open frame. 225 Watts convection cooled open frame. Derate 10% with chassis and cover. Derate 2.5 Wout / 1 Vin below 100 Vin and between 100 Vin and 85 Vin. Use larger of the two deratings when using chassis/cover below 100 Vin. Derate output power linearly to 50% between 50° and  $70^{\circ}$  C.

## TYPICAL LOAD SHARE/REMOTE SENSE APPLICATION



REV.H 05/27/2015

4 STBY PWR (-)

P5