225 WATTS

SINGLE OUTPUT AC-DC

FEATURES:

- Compact 3.0" x 5.0" x 1.5" Size
- 3 Year Warranty
- Universal 85-264V Input
- Single High Efficiency Output
- Power Fail Warning
- 0-70°C Operating Temperature
- RoHS Compliant
- IEC 60601-1-2 4th ed. EMC
 Class B Emissions per EN55011/32
- Optional Single Wire Load Sharing

• IEC 60601-1 3rd ed. Medical Cert.

• IEC 62368-1 2nd ed. Certification

- Optional Remote Inhibit/Enable
 - Optional Chassis/Cover



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-225-1001 | 2.5V/53.0A | 2.5V/30.0A | 2.5V/47.7A | 2.5V/27.0A |
| NXT-225-1002 | 3.3V/53.0A | 3.3V/30.0A | 3.3V/47.7A | 3.3V/27.0A |
| NXT-225-1003 | 5V/45.0A | 5V/30.0A | 5V/40.5A | 5V/27.0A |
| NXT-225-1004 | 12V/18.8A | 12V/12.5A | 12V/16.9A | 12V/11.3A |
| NXT-225-1005 | 15V/15.0A | 15V/10.0A | 15V/13.5A | 15V/9.0A |
| NXT-225-1006 | 24V/9.4A | 24V/6.3A | 24V/8.5A | 24V/5.7A |
| NXT-225-1007 | 28V/8.0A | 28V/5.4A | 28V/7.2A | 28V/4.9A |
| NXT-225-1008 | 48V/4.7A | 48V/3.1A | 48V/4.2A | 48V/2.8A |
| NXT-225-10091 | 56V/4A | 56V/2.7A | 56V/3.6A | 56V/2.4A |
| Please refer to Outr | ut Power Deratin | a chart | | |

Please refer to Output Power Derating chart.

1. Approved to 62368-1 only.

LS - Single Wire Load Sharing

ORDERING INFORMATION

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

CH - Chassis CO - Cover

UK

CA

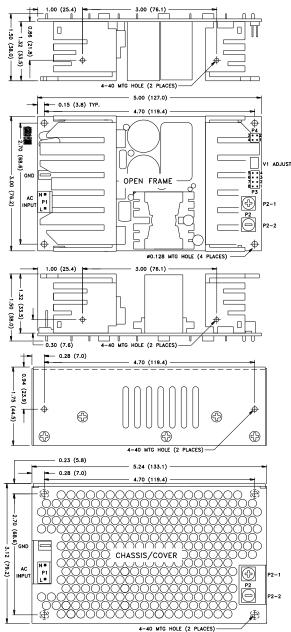
LSEVB - Load Share Evaluation Board RE - Remote Inhibit

All specifications are maximum at $25^{\circ}C/225W$ unless otherwise stated, may vary by model and are subject to change without notice.

NXT-225

| OUTPUT SPECIFICATIONS | | | | | | |
|---|--|--|--|--|--|--|
| Output Power at 50°C(1) | 150W | Convection Cooled, Open Frame | | | | |
| (See Derating Chart) | 225W | 300LFM Forced-Air Cooled(15) | | | | |
| Power Derating | 1.5 Wout / 1 Vin b | | | | | |
| Voltage Centering | ± 0.5% | (50% load) | | | | |
| Voltage Adjust Range | 95-105% | | | | | |
| Load Regulation | 0.5% | (0-100% load change) | | | | |
| Source Regulation | 0.5% | | | | | |
| Noise Turn on Overshoot | 1.0% or 100mV None | Whichever is greater | | | | |
| Transient Response | | o within 1% of initial set point due | | | | |
| Transient response | | id change, 500µS maximum, | | | | |
| | 4% maximum dev | | | | | |
| Overvoltage Protection | Latching, between | n 110% and 150% of rated output voltage. | | | | |
| Overpower Protection | | Pout, cycle on/off, auto recovery | | | | |
| Hold Up Time | | ower, 85-264V Input | | | | |
| Start Up Time | 3 Seconds, 120V | Input | | | | |
| | T SPECIFIC | CATIONS | | | | |
| Protection Class | | | | | | |
| Source Voltage | 85 - 264 Volts A0 | ; | | | | |
| Frequency Range | 47 – 63 Hz | Dolou fuco | | | | |
| Input Protection ₍₆₎ Peak Inrush Current | Internal 5A Time 50A (cold) | | | | | |
| Efficiency | | 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 Por | wer Rating Chart | | | | |
| Ambient Storage Temp. Range | - 40°C to + 85°C | | | | | |
| Operating Relative Humidity Range | | | | | | |
| Altitude | | perating/ 40,000 ft. ALS Non-Operating | | | | |
| Temperature Coefficient | 0.02%/°C | | | | | |
| Vibration | 2.5g, 10Hz2KH | z per MIL-STD-810F Method 516.5 | | | | |
| Shock | | L-STD-810F Method 516.5 | | | | |
| | RAL SPECIE | FICATIONS | | | | |
| Means of Protection Primary to Secondary | | of Patient Protection) | | | | |
| Primary to Ground | | of Operator Protection) | | | | |
| Secondary to Ground | | ation(Consult factory for 1MOPP) | | | | |
| Dielectric Strength(8, 9) | | | | | | |
| Reinforced Insulation | 5656 VDC, Prima | | | | | |
| Basic Insulation | 2121 VDC, Prima | | | | | |
| Operational Insulation | 707 VDC, Secor | ndary to Ground | | | | |
| Leakage Current Earth Leakage | <300µA NC, <10 | 00uA SEC | | | | |
| Touch Current | <100µA NC, <50 | | | | | |
| Power Fail Signal(14) | | but power failure 10 ms minimum | | | | |
| | prior to output 1 d | | | | | |
| Remote Inhibit (optional) | Isolated Contact | | | | | |
| | | closure inhibits output. | | | | |
| Load Share (optional)(16, 17, 18) | Single wire currer | closure inhibits output. nt sharing with return via negative | | | | |
| | Single wire currer sense return. Min | closure inhibits output. nt sharing with return via negative imum current share load is 10% of | | | | |
| | Single wire currer sense return. Min each module's ou | closure inhibits output. It sharing with return via negative imum current share load is 10% of itput current rating. Maximum output | | | | |
| | Single wire currer sense return. Min each module's ou voltage deviation | closure inhibits output. It sharing with return via negative imum current share load is 10% of itput current rating. Maximum output between modules is 5% for 2.5 through 5 | | | | |
| | Single wire currer sense return. Min each module's ou voltage deviation V models and 400 | closure inhibits output. In sharing with return via negative imum current share load is 10% of utput current rating. Maximum output between modules is 5% for 2.5 through 5 0 mV for remaining models. | | | | |
| Load Share (optional)(16, 17, 18) | Single wire currer sense return. Min each module's ou voltage deviation V models and 400 | closure inhibits output. It sharing with return via negative imum current share load is 10% of itput current rating. Maximum output between modules is 5% for 2.5 through 5 | | | | |
| Load Share (optional)(16, 17, 18) Standby Power (optional)(19) Remote Sense(10) | Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa | closure inhibits output. Int sharing with return via negative imum current share load is 10% of utput current rating. Maximum output between modules is 5% for 2.5 through 5 0 mV for remaining models. 10%, 10 mA available only with Remote ation of output cable losses | | | | |
| Load Share (optional)(16, 17, 18) Standby Power (optional)(19) Remote Sense(10) Mean-Time Between Failures | Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m | closure inhibits output. Int sharing with return via negative imum current share load is 10% of itput current rating. Maximum output between modules is 5% for 2.5 through 5 0 mV for remaining models. 10%, 10 mA available only with Remote ation of output cable losses in., MIL-HDBK-217F, 25° C, GB | | | | |
| Load Share (optional)(16, 17, 18) Standby Power (optional)(19) Remote Sense(10) Mean-Time Between Failures Weight | Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 0.98 Lbs. Open F | closure inhibits output. Int sharing with return via negative imum current share load is 10% of itput current rating. Maximum output between modules is 5% for 2.5 through 5 0 mV for remaining models. 10%, 10 mA available only with Remote ation of output cable losses in., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover | | | | |
| Load Share (optional)(16, 17, 18) Standby Power (optional)(19) Remote Sense(10) Mean-Time Between Failures Weight EMCSPECIFICATIONS | Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 0.98 Lbs. Open F (IEC 60601-1- | closure inhibits output. Int sharing with return via negative imum current share load is 10% of itput current rating. Maximum output between modules is 5% for 2.5 through 5 0 mV for remaining models. 10%, 10 mA available only with Remote ation of output cable losses in., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover 2:2014, 4 TH ed./IEC 61000-6-2:2005) | | | | |
| Load Share (optional)(16, 17, 18) Standby Power (optional)(19) Remote Sense(10) Mean-Time Between Failures Weight EMCSPECIFICATIONS Electrostatic Discharge | Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 0.98 Lbs. Open F (IEC 60601-1- EN 61000-4-2 | closure inhibits output. Int sharing with return via negative imum current share load is 10% of itput current rating. Maximum output between modules is 5% for 2.5 through 5 0 mV for remaining models. 10%, 10 mA available only with Remote ation of output cable losses in., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover 2:2014, 4 TH ed./IEC 61000-6-2:2005) ±8KV contact / ±15KV air discharge A | | | | |
| Load Share (optional)(16, 17, 18) Standby Power (optional)(19) Remote Sense(10) Mean-Time Between Failures Weight EMCSPECIFICATIONS Electrostatic Discharge Radiated Electromagnetic Field | Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 0.98 Lbs. Open F (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 | closure inhibits output. Int sharing with retum via negative imum current share load is 10% of itput current rating. Maximum output between modules is 5% for 2.5 through 5 0 mV for remaining models. 10%, 10 mA available only with Remote ation of output cable losses in., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover 2:2014, 4 TH ed./IEC 61000-6-2:2005) ±8KV contact / ±15KV air discharge A 80MHz-2.7GHz, 10V/m, 80% AM A | | | | |
| Load Share (optional)(16, 17, 18) Standby Power (optional)(19) Remote Sense(10) Mean-Time Between Failures Weight EMCSPECIFICATIONS Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts | Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 0.98 Lbs. Open F (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 | closure inhibits output. Int sharing with retum via negative imum current share load is 10% of itput current rating. Maximum output between modules is 5% for 2.5 through 5 0 mV for remaining models. 10%, 10 mA available only with Remote ation of output cable losses in., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover 2:2014, 4 TH ed./IEC 61000-6-2:2005) ±8KV contact / ±15KV air discharge A 80MHz-2.7GHz, 10V/m, 80% AM A | | | | |
| Load Share (optional)(16, 17, 18) Standby Power (optional)(19) Remote Sense(10) Mean-Time Between Failures Weight EMCSPECIFICATIONS Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity | Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 0.98 Lbs. Open F (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 | closure inhibits output. nt sharing with retum via negative imum current share load is 10% of itput current rating. Maximum output between modules is 5% for 2.5 through 5 0 mV for remaining models. 10%, 10 mA available only with Remote ation of output cable losses in., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover 22014, 4 TH ed./IEC 61000-6-22005) ±8KV contact / ±15KV air discharge A 80MHz-2.7GHz, 10V/m, 80% AM ±2 KV, 5KHz/100KHz A ±2 KV line to earth / ±1 KV line to line | | | | |
| Load Share (optional)(16, 17, 18) Standby Power (optional)(19) Remote Sense(10) Mean-Time Between Failures Weight Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity | Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 0.98 Lbs. Open F (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-6 | closure inhibits output. nt sharing with retum via negative imum current share load is 10% of itput current rating. Maximum output between modules is 5% for 2.5 through 5 0 mV for remaining models. 10%, 10 mA available only with Remote ation of output cable losses in., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover 2:2014, 4 TH ed./IEC 61000-6-2:2005) ±8KV contact / ±15KV air discharge A 80MHz-2.7GHz, 10V/m, 80% AM ±2 KV, 5KHz/100KHz A ±2 KV line to earth / ±1 KV line to line A 0.15 to 80MHz, 10V, 80% AM | | | | |
| Load Share (optional)(16, 17, 18) Standby Power (optional)(19) Remote Sense(10) Mean-Time Between Failures Weight Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity | Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 0.98 Lbs. Open F (IEC 60601-1- EN 61000-4-2 EN 61000-4-2 EN 61000-4-5 EN 61000-4-8 | closure inhibits output. nt sharing with return via negative imum current share load is 10% of itput current rating. Maximum output between modules is 5% for 2.5 through 5 0 mV for remaining models. 10%, 10 mA available only with Remote ation of output cable losses in., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover 2:2014, 4 TH ed./IEC 61000-6-2:2005) ±8KV contact / ±15KV air discharge A 80MHz-2.7GHz, 10V/m, 80% AM ±2 KV, Ine to earth / ±1 KV line to line -15 to 80MHz, 10V, 80% AM 30A/m, 60 Hz. | | | | |
| Load Share (optional)(16, 17, 18) Standby Power (optional)(19) Remote Sense(10) Mean-Time Between Failures Weight EMCSPECIFICATIONS Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity | Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 0.98 Lbs. Open F (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-6 | closure inhibits output. nt sharing with retum via negative imum current share load is 10% of itput current rating. Maximum output between modules is 5% for 2.5 through 5 0 mV for remaining models. 10%, 10 mA available only with Remote ation of output cable losses in., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover 212014, 4TH ed./IEC 61000-6-2:2005) ±8KV contact / ±15KV air discharge A 80MHz-2.7GHz, 10V/m, 80% AM ±2 KV, 5KHz/100KHz A ±2 KV, 5KHz/100KHz A 30A/m, 60 Hz. 0% Ur, 0.5 cycles, 0-315° | | | | |
| Load Share (optional)(16, 17, 18) Standby Power (optional)(19) Remote Sense(10) Mean-Time Between Failures Weight Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity | Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 0.98 Lbs. Open F (IEC 60601-1- EN 61000-4-2 EN 61000-4-2 EN 61000-4-5 EN 61000-4-8 | closure inhibits output. nt sharing with return via negative imum current share load is 10% of itput current rating. Maximum output between modules is 5% for 2.5 through 5 0 mV for remaining models. 10%, 10 mA available only with Remote ation of output cable losses in., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover 2:2014, 4 TH ed./IEC 61000-6-2:2005) ±8KV contact / ±15KV air discharge A 80MHz-2.7GHz, 10V/m, 80% AM ±2 KV, Ine to earth / ±1 KV line to line -15 to 80MHz, 10V, 80% AM 30A/m, 60 Hz. | | | | |
| Load Share (optional)(16, 17, 18) Standby Power (optional)(19) Remote Sense(10) Mean-Time Between Failures Weight EMCSPECIFICATIONS Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity Voltage Dips | Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 0.98 Lbs. Open F (IEC 60601-1- EN 61000-4-2 EN 61000-4-2 EN 61000-4-5 EN 61000-4-8 | closure inhibits output. nt sharing with retum via negative imum current share load is 10% of tput current rating. Maximum output between modules is 5% for 2.5 through 5 0 mV for remaining models. 10%, 10 mA available only with Remote ation of output cable losses in., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover 2:2014, 4T^H ed./IEC 61000-6-2:2005) ±8KV contact / ±15KV air discharge A 80MHz-2.7GHz, 10V/m, 80% AM +2 KV, 5KHz/100KHz A 2.4 V, 5KHz/100KHz A 0.75 to 80MHz, 10V, 80% AM A 00% Ur, 0.5 cycles, 0-315° 100/240V A/A 0% Ur, 10/12 cycles, 0° 100/240V A/A 0% Ur, 10/12 cycles, 0° 100/240V B/A 70% Ur, 25/30 cycles, 0° 100/240V B/A | | | | |
| Load Share (optional)(16, 17, 18) Standby Power (optional)(19) Remote Sense(10) Mean-Time Between Failures Weight EMCSPECIFICATIONS Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity Voltage Dips Voltage Interruptions | Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 0.98 Lbs. Open F (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 EN 61000-4-3 EN 61000-4-8 EN 61000-4-11 | closure inhibits output. nt sharing with retum via negative imum current share load is 10% of itput current rating. Maximum output between modules is 5% for 2.5 through 5 0 mV for remaining models. 10%, 10 mA available only with Remote ation of output cable losses in., MIL-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover 2:2014, 4T^H ed./IEC 61000-6-2:2005) ±8KV contact / ±15KV air discharge A 80MHz-2.7GHz, 10V/m, 80% AM A ±2 KV, 5KHz/100KHz A 20A/m, 60 Hz. A 30A/m, 60 Hz. 0% UT, 10;2cycles, 0° 100/240V A/A 0% UT, 10;12 cycles, 0° 100/240V B/A 0% UT, 25/30 cycles, 0° 100/240V B/A 0% UT, 25/30 cycles, 0° 100/240V B/A | | | | |
| Load Share (optional)(16, 17, 18) Standby Power (optional)(19) Remote Sense(10) Mean-Time Between Failures Weight Encode Sense(10) Rediated Electromagnetic Field Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity Voltage Dips | Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 0.98 Lbs. Open F (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 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 55011/32 | $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$ | | | | |
| Load Share (optional)(16, 17, 18) Standby Power (optional)(19) Remote Sense(10) Mean-Time Between Failures Weight Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity Voltage Dips Voltage Interruptions Radiated Emissions Conducted Emissions | Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 0.98 Lbs. Open F (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 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 55011/32 EN 55011/32 | closure inhibits output. nt sharing with return via negative imum current share load is 10% of itput current rating. Maximum output between modules is 5% for 2.5 through 5 0 mV for remaining models. 10%, 10 mA available only with Remote ation of output cable losses in., ML-HDBK-217F, 25° C, GB Frame/ 1.50 Lbs. Chassis and Cover 2:2014, 4 TH ed./IEC 61000-6-2:2005) ±8KV contact / ±15KV air discharge A #0MHz-2.7GHz, 10V/m, 80% AM +2 KV line to earth / ±1 KV line to line 40% UT, 0.5 cycles, 0° 100/240V A/A 0% UT, 10/12 cycles, 0° 100/240V A/A 0% UT, 25/30 cycles, 0° 100/240V B/A 0% UT, 25/30 cycles, 0° 100/240V B/A 0% UT, 10/12 cycles, 0° 100/240V B/A 0% UT, 300 cycles, 0° 100/240V B/A 0% UT, 10/12 cycles, 0° 100/240V B/A 0% UT, 300 cycles, 0° 100/240V B/A 0% UT, 300 cycles, 0° 100/240V B/A 0% UT, 300 cycles, 0° 100/240V B/A Class B | | | | |
| Load Share (optional)(16, 17, 18) Standby Power (optional)(19) Remote Sense(10) Mean-Time Between Failures Weight Encode Sense(10) Rediated Electromagnetic Field Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity Voltage Dips Voltage Interruptions Radiated Emissions | Single wire currer sense return. Min each module's ou voltage deviation V models and 400 Isolated 5 Vdc ± Inhibit option. 400mV compensa 100,000 Hours m 0.98 Lbs. Open F (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 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 55011/32 | $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$ | | | | |

ALL PSU LTD, Unit D6 Laser Quay, Culpeper Close Medway City Estate, Rochester, Kent, ME2 4HU Tel: 01634 725527, Email: sales@allpsu.co.uk, Web: www.allpsu.co.uk



ALL DIMENSIONS IN INCHES (mm)

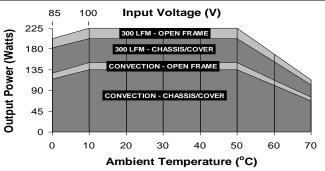
CONNECTOR SPECIFICATIONS

| P1 • NEUTRAL • UINE | AC Input | 0.156 friction lock header mates with Molex 09-50-3031 or equivalent crimp terminal housing with Molex 2478 or equivalent crimp terminal. |
|---|-------------------------------------|---|
| Р2 ОUTPUT 1 (-) | DC Output | 6-32 screw down terminal mates with #6 ring tongue terminal. (10 in-lb Max) |
| P3 SHARE BUS 5 P.F. SIG (+) 6 SENSE (+) 7 SENSE (+) 8 | Power Fail, Load Share, Sense | 0.100 friction lock header mates with Molex 22-55-2081 or equivalent crimp terminal housing with Molex 71851 or crimp equivalent terminal. |
| P4 INHIBIT 3 • • 2 INHIBIT RTN STBY PWR (+) 4 • • 1 STBY RTN (-) | Inhibit, Standby Power | 0.100 friction lock header mates with Molex 22-55-2041 or equivalent crimp terminal housing with Molex 71851 or equivalent crimp terminal. |
| | Ground | 0.187 quick disconnect terminal. |

APPLICATIONS INFORMATION

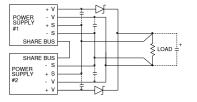
- 1. Continuous Output Power must not exceed 225W.
- Generally, adequate cooling is provided when semiconductor case temperatures do not exceed 70°C rise and transformer temperature does not exceed 60°C rise at any specified ambient temperature.
- Sufficient area must be provided around power supply to allow natural movement of air to develop in convection-cooled applications.
- 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.
- 5. 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.
- 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.
- 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.





Derating requirements – Chart above applies to models 1003 thru 1008 only. 225W 300LFM forced air, open frame. 150W convection cooled open frame. Derate 10% with chassis and cover. Derate 1.5Wourt/1V_{IN} below 100V_{IN} and between 100V_{IN} and 85V_{IN}. Use larger of the two deratings when using chassis/cover below 100V_{IN}. Derate output power linearly to 50% between 50° and 70°C.

TYPICAL LOAD SHARE/REMOTE SENSE APPLICATION



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