150 WATTS

SINGLE/MULTI OUTPUT AC-DC

FEATURES:

- Compact 3.8" x 6.0" x 1.3" Size
 IEC 62368-1 2nd ed. Certification
- 2 Year Warranty
- Universal 85-264V Input
- One to Four Outputs
- High Efficiency
- 0-70°C Operating Temperature
- IEC 60601-1 3rd ed. Medical Cert.
- IEC 60601-1-2 4th ed. EMC
- Class B Emissions per EN55011/32
- RoHS Compliant
- Optional Remote Inhibit/Enable
- Optional Chassis/Cover



| CHASSIS/COVER OPEN FRAME | | | | | | |
|--|---|-----------|--|--------------------|--|--|
| SAFETY SPECIFICATIONS | | | | | | |
| Underwriters Laboratories US File E137708/E140259 | | | UL 62368-1:2014, 2 CAN/CSA-C22.2 No AAMI/ANSI ES6060 | | | |
| | National and Crown Deviations) IEC 60601 1,2005/A1,2012 | | | | | |
| | TUV SUD America | | EN 62368-1:2014, 2nd Edition EN 60601-1:2006/A1:2013 | | | |
| | Low Voltage Directive RoHS Directive (Recast) | | (2014/35/EU of February 2014) (2015/863/EU of March 2015) | | | |
| CA 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 | | | | | | |
| | | | | | | |
| MODEL | OUTPUT 1(1 | 9) OUTPUT | 2(19) OUTPUT 3 | B(18) OUTPUT 4(18) | | |
| REL-150-4001 | +3.3V/15A(20) | +5V/8A | +12V/2A | -12V/2A | | |
| REL-150-4002 | +5V/15A(20) | +3.3V/8A | +12V/2A | -12V/2A | | |
| REL-150-4003 | +5V/15A(20) | +3.3V/8A | +15V/2A | -15V/2A | | |
| REL-150-4004 | +5V/15A(20) | -5V/8A | +12V/2A | -12V/2A | | |
| REL-150-4005 | +5V/15A(20) | -5V/8A | +15V/2A | -15V/2A | | |
| REL-150-4006 | +5V/15A(20) | +24V/3A | +12V/2A | -12V/2A | | |
| REL-150-4007 | +5V/15A(20) | +24V/3A | +15V/2A | -15V/2A | | |
| REL-150-4009 | +24V/2.3A | +10V/1A | +6V/1.6A | -6V/.31A | | |
| REL-150-4010 | 5V/15A(20) | 12V/5A | 24V/1A | 24V/1A | | |
| REL-150-3001 | +5V/15A(20) | +12V/4A | | -12V/3A | | |
| REL-150-3002 | +5V/15A(20) | +15V/3A | | -15V/2A | | |
| REL-150-3003 | +22V/3.5A | -22V/3.5A | +24V/1A | 101/2/1 | | |
| REL-150-3004 | +5V/6A | +12V/7A | | -12V/3A | | |
| REL-150-3005 | +5.5V/15A(20) | +15.5V/3A | | -15.5V/2A | | |
| REL-150-2001 | +3.3V/15A(20) | +5V/8A | | | | |
| REL-150-2002 | +5V/15A(20) | +12V/5A | | | | |
| REL-150-2003 | +5V/15A(20) | +24V/3A | | | | |
| REL-150-2004 | +12V/7.5A | -12V/5A | | | | |
| REL-150-2005 | +15V/5A | -15V/5A | | | | |
| REL-150-1001 | 2.5V/30A(21) | | | | | |
| REL-150-1002 | 3.3V/30A(21) | | | | | |
| REL-150-1003 | 5V/30A(21) | | | | | |
| REL-150-1004 | 12V/12.5A | | | | | |
| REL-150-1005 | 15V/10.0A | | | | | |
| REL-150-1006 | 24V/6.3A | | | | | |
| REL-150-1007 | 28V/5.4A | | | | | |
| REL-150-1008 | 48V/3.1A | | | | | |
| REL-150-1009 | 20-31V/5.4A | | | | | |
| REL-150-1010 | 36V/4.16A | | | | | |
| | | ERING IN | FORMATION | | | |
| Consult factory for alternate output configurations. | | | | | | |

Consult factory for alternate output configurations. Consult factory for positive, negative or floating outputs. REL-150-4010: TUV only.

All specifications are maximum at 25°C/150W unless otherwise stated, may vary by model and are subject to change without notice.

| | KEL-I | | |
|---|--|---|--|
| OUT | PUT SPECIF | ICATIONS | |
| Total Output Power at 50°C(1) | 100W | Convection Cooled(16)(17) | |
| See Derating Chart) | 150W | Forced-Air Cooled(15)(16)(17) | |
| Output Voltage Centering | Output 1: | $\pm 0.5\%$ (All outputs at 50% load) | |
| | Output 2: | ± 5.0% | |
| | Output 3: | ± 5.0% | |
| Output Voltage Adjust Range | Output 4: Output 1: | ± 5.0% 95-105% | |
| Load Regulation | Output 1: | 0.5% (10-100% load change) | |
| | Output 2: | 5.0% (10-100% load change) | |
| | (4001-5 Models) | | |
| | (2001 Model) | 6.0% (20-100% load change) | |
| | Output 3: | 5.0% (10-100% load change) | |
| | Output 4: | 5.0% (10-100% load change) | |
| Source Regulation | Outputs 1 – 4: | 0.5% | |
| Cross Regulation Output Noise | Outputs 2 – 4: Outputs 1 – 4: | 5.0% 1.0% | |
| Furn on Overshoot | None | 1.0% | |
| Transient Response | Outputs 1 – 4 | | |
| Voltage Deviation | 5.0% | | |
| Recovery Time | 500µS | | |
| Load Change | 50% to 100% | | |
| Output Overvoltage Protection | Output 1: | 110% to 150% | |
| Output Overpower Protection | | Pout, cycle on/off, auto recovery | |
| Hold Up Time | 16mS min., Full | Power, 85V Input | |
| Start Up Time | 5 Seconds, 120 | | |
| | | SATIONS | |
| Protection Class Source Voltage | 85 – 264 Volts A | C | |
| Frequency Range | 47 – 63 Hz | 6 | |
| Peak Inrush Current | 40A | | |
| Efficiency | | ower, 230V, varies by model | |
| Power Factor | 0.95 (Full Power | | |
| | | ECIFICATIONS | |
| Ambient Operating | 0°C to + 70°C | | |
| Temperature Range | Derating: See Po | ower Rating Chart | |
| Ambient Storage Temp. Range | - 40°C to + 85°C | ; | |
| Temperature Coefficient | Outputs 1 – 4: | 0.02%/°C | |
| | | perating – Medical 60601-1 | |
| Altitude | | perating – ITE/AV – 62368-1 | |
| | 12,192m ASL – I | | |
| | ERAL SPECI | FICATIONS | |
| Means of Protection Primary to Secondary | | of Patient Protection) | |
| Primary to Ground | | of Patient Protection) | |
| Secondary to Ground | | ation(Consult factory for 1MOPP) | |
| Dielectric Strength _(8, 9) | • | | |
| | 5656 VDC, Primary to Secondary | | |
| Reinforced Insulation | | | |
| Reinforced Insulation Basic Insulation | 2121 VDC, Prima | ary to Ground | |
| Reinforced Insulation Basic Insulation Operational Insulation | 2121 VDC, Prima | | |
| Reinforced Insulation Basic Insulation Operational Insulation Leakage Current | 2121 VDC, Prima 707 VDC, Seco | ary to Ground ndary to Ground | |
| Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage | 2121 VDC, Prima 707 VDC, Seco <300µA NC, <10 | ary to Ground ndary to Ground 100µA SFC | |
| Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current | 2121 VDC, Prima 707 VDC, Seco <300µA NC, <10 <100µA NC, <50 | ary to Ground ndary to Ground)00µA SFC)0µA SFC | |
| Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current | 2121 VDC, Prima 707 VDC, Seco <300µA NC, <10 <100µA NC, <50 Logic low with in | ary to Ground Indary to Ground 100µA SFC 10µA SFC put power failure 10 ms | |
| Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal ₍₁₄₎ | 2121 VDC, Prim 707 VDC, Seco <300µA NC, <10 <100µA NC, <50 Logic low with in minimum prior to | ary to Ground ndary to Ground)00µA SFC)0µA SFC | |
| Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal ₍₁₄₎ Remote Inhibit (optional) Remote Sense ₍₁₀₎ | 2121 VDC, Prim: 707 VDC, Seco <300µA NC, <10 (100µA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens | ary to Ground indary to Ground 100µA SFC 10µA SFC 10µA SFC 10µt power failure 10 ms 0.0µtput 1 dropping 1% inhibits all outputs ation of output cable losses | |
| Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal ₍₁₄₎ Remote Inhibit (optional) Remote Sense ₍₁₀₎ Mean-Time Between Failures | 2121 VDC, Prim: 707 VDC, Seco <300µA NC, <10 <100µA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours n | ary to Ground indary to Ground 100µA SFC 10µA SFC 10µ | |
| Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal ₍₁₄₎ Remote Inhibit (optional) Remote Sense ₍₁₀₎ Mean-Time Between Failures Weight | 2121 VDC, Prim: 707 VDC, Seco <300µA NC, <10 <100µA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours n 1.15 Lbs. Open | ary to Ground indary to Ground 100µA SFC 10µA SFC 10µA SFC 10µt power failure 10 ms 10µt power failure 10 ms 10µt 1 dropping 1% 10µt 1 dro | |
| Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal ₍₁₄₎ Remote Inhibit (optional) Remote Sense ₍₁₀₎ Mean-Time Between Failures Weight EMCSPECIFICATION | 2121 VDC, Prim: 707 VDC, Seco <300μA NC, <10 <100μA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours n 1.15 Lbs. Open S (IEC 60601-1- | ary to Ground indary to Ground 100µA SFC 10µA SFC 10µA SFC 10µt power failure 10 ms 0 utput 1 dropping 1% Inhibits all outputs iation of output cable losses nin., MIL-HDBK-217F, 25° C, GB Frame/ 1.82 Lbs. Chassis and Cover 2:2014, 4 TH ed./IEC 61000-6-2:2005) | |
| Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal(14) Remote Inhibit (optional) Remote Sense(10) Mean-Time Between Failures Weight EMC SPECIFICATION Electrostatic Discharge | 2121 VDC, Prim: 707 VDC, Seco <300μA NC, <10 <100μA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours n 1.15 Lbs. Open S (IEC 60601-1- EN 61000-4-2 | ary to Ground indary to Ground 100µA SFC 10µA SFC 10µA SFC 10µt power failure 10 ms 10µt p | |
| Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal ₍₁₄₎ Remote Inhibit (optional) Remote Sense ₍₁₀₎ Mean-Time Between Failures Neight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field | 2121 VDC, Prim: 707 VDC, Seco <300μA NC, <10 <100μA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours n 1.15 Lbs. Open S (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 | ary to Ground indary to Ground 100µA SFC 100µA SFC 100µA SFC 100µD a SFC 100µ | |
| Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal ₍₁₄₎ Remote Inhibit (optional) Remote Sense ₍₁₀₎ Mean-Time Between Failures Neight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts | 2121 VDC, Prim: 707 VDC, Seco <300μA NC, <10 <100μA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours n 1.15 Lbs. Open S (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 | ary to Ground indary to Ground 100µA SFC 10µA SFC 10µA SFC 10µA SFC 10µT power failure 10 ms 10µT power failure 10 | |
| Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal(14) Remote Inhibit (optional) Remote Sense(10) Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity | 2121 VDC, Prim: 707 VDC, Seco <300µA NC, <10 <100µA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours n 1.15 Lbs. Open S (IEC 60601-1-1 EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 | ary to Ground indary to Ground 100µA SFC 10µA SFC 10µA SFC 10µT power failure 10 ms 100µT 1 dropping 1% 100µT 1 dropping 1% 100µT 200µT 200 100µT 200µT 200 100µT 200µT 200 100µT 200µT 200µT 200 100µT 200µT 200µ | |
| Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal(14) Remote Inhibit (optional) Remote Sense(10) Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity | 2121 VDC, Prim: 707 VDC, Seco <300µA NC, <10 <100µA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours n 1.15 Lbs. Open S (IEC 60601-1-1 EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-6 | ary to Ground indary to Ground 100µA SFC 10µA SFC 10µA SFC 10µA SFC 10µT power failure 10 ms 10µT power failure 10µ | |
| Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal ₍₁₄₎ Remote Inhibit (optional) Remote Sense ₍₁₀₎ Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity | 2121 VDC, Prim: 707 VDC, Seco <300µA NC, <10 (100µA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours n 1.15 Lbs. Open S (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-8 | ary to Ground indary to Ground 100µA SFC 10µA SFC 10µA SFC 10µt power failure 10 ms 10µt p | |
| Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal ₍₁₄₎ Remote Inhibit (optional) Remote Sense ₍₁₀₎ Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity | 2121 VDC, Prim: 707 VDC, Seco <300µA NC, <10 <100µA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours n 1.15 Lbs. Open S (IEC 60601-1-1 EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-6 | ary to Ground indary to Ground 100μA SFC 10μA SFC 10μA SFC 10μt power failure 10 ms 10μt | |
| Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal ₍₁₄₎ Remote Inhibit (optional) Remote Sense ₍₁₀₎ Mean-Time Between Failures Weight | 2121 VDC, Prim: 707 VDC, Seco <300µA NC, <10 (100µA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours n 1.15 Lbs. Open S (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-8 | ary to Ground indary to Ground 100μA SFC 10μA SFC 10μA SFC 10μt power failure 10 ms 10μt power | |
| Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal ₍₁₄₎ Remote Inhibit (optional) Remote Sense ₍₁₀₎ Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity | 2121 VDC, Prim: 707 VDC, Seco <300µA NC, <10 (100µA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours n 1.15 Lbs. Open S (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-8 | ary to Ground indary to Ground 100μA SFC 10μA SFC 10μA SFC 10μt power failure 10 ms 10μt power failure 10 ms 10μt 1 dropping 1% 11μt dropping 1% 1 | |
| Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal ₍₁₄₎ Remote Inhibit (optional) Remote Sense ₍₁₀₎ Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Voltage Dips | 2121 VDC, Prim: 707 VDC, Seco <300µA NC, <10 <100µA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours n 1.15 Lbs. Open S (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 EN 61000-4-3 EN 61000-4-5 EN 61000-4-8 EN 61000-4-11 | ary to Ground indary to Ground 100μA SFC 10μA SFC 10μA SFC 10μt power failure 10 ms 10utput 1 dropping 1% 10utput 1 dropping 1% 10utput 1 dropping 1% 10utput 1 dropping 1% 10utput 2 dropping 1% | |
| Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal ₍₁₄₎ Remote Inhibit (optional) Remote Sense ₍₁₀₎ Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Voltage Dips | 2121 VDC, Prim: 707 VDC, Seco <300µA NC, <10 <100µA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours n 1.15 Lbs. Open S (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-11 EN 61000-4-11 | ary to Ground indary to Ground 100μA SFC 10μA SFC 10μA SFC 10μt power failure 10 ms 10utput 1 dropping 1% 10utput 1 dropping 1% 10utput 1 dropping 1% 10utput 1 dropping 1% 10utput 2 dropping 1% | |
| Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal ₍₁₄₎ Remote Inhibit (optional) Remote Sense ₍₁₀₎ Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity | 2121 VDC, Prim: 707 VDC, Seco <300µA NC, <10 <100µA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours n 1.15 Lbs. Open S (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 EN 61000-4-3 EN 61000-4-5 EN 61000-4-8 EN 61000-4-11 | ary to Ground indary to Ground 100μA SFC 10μA SFC 10μA SFC 10μt power failure 10 ms 10utput 1 dropping 1% 10utput 1 dropping 1% 10utput 1 dropping 1% 10utput 1 dropping 1% 10utput 2 dropping 1% | |
| Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal(14) Remote Inhibit (optional) Remote Sense(10) Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity Voltage Dips | 2121 VDC, Prim: 707 VDC, Seco <300µA NC, <10 <100µA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours n 1.15 Lbs. Open S (IEC 60601-1-1 EN 61000-4-3 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-11 EN 61000-4-11 EN 61000-4-11 EN 55011/32 | ary to Ground indary to Ground 100μA SFC 10μA SFC 10μA SFC 10μ power failure 10 ms 100μa Output 1 dropping 1% 100μa SFC 100μa SFC 10μa SF | |
| Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal ₍₁₄₎ Remote Inhibit (optional) Remote Sense ₍₁₀₎ Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Voltage Interruptions Radiated Emissions Conducted Emissions Conducted Emissions Harmonic Current Emissions Voltage Fluctuations/Flicker | 2121 VDC, Prim: 707 VDC, Seco <300µA NC, <10 (100µA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours n 1.15 Lbs. Open S (IEC 60601-1 - EN 61000-4-2 EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-11 EN 61000-4-11 EN 61000-4-11 EN 55011/32 EN 55011/32 | ary to Ground indary to Ground 100μA SFC 10μA SFC 10μA SFC 10μt power failure 10 ms 10μt power 10 ms 10μ | |

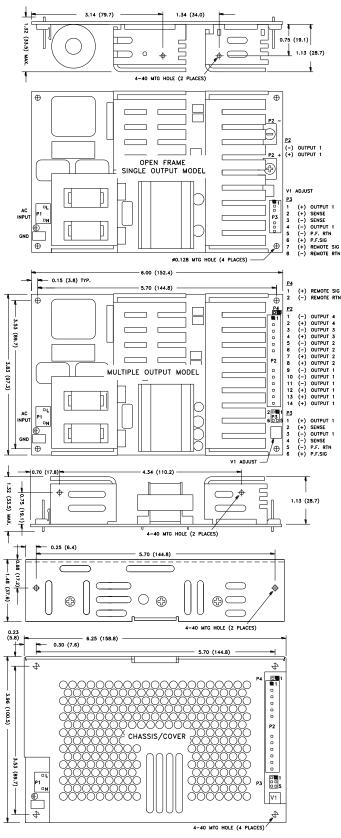
REI _150

CH – Chassis CO - Cover RE – Remote Inhibit

TS - Terminal Strips

I/O - Isolated Outputs



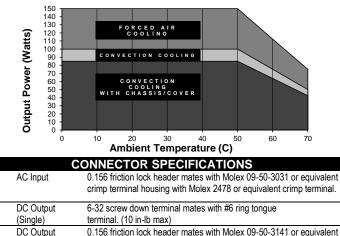


ALL DIMENSIONS IN INCHES (mm)

APPLICATIONS INFORMATION

- Each output can deliver its rated current but Total Output Power must not exceed 150W, as determined by the cooling method.
- 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.
- 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), 20 MHz 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 250mV. The use of a twisted pair, decoupling capacitors and an appropriately-rated low-impedance capacitor connected across the load will increase noise immunity.
- 11. Maximum screw penetration into bottom chassis mounting holes is 0.100 inches. Maximum screw penetration into side chassis mounting holes is 0.250 inches.
- 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, 5V/10mA.
- 300LFM minimum of airflow must be maintained one inch above all points of top-side components or cover when forced-air cooling is required.
- Total power must not exceed 100W with convection cooling or 150W with forced-air cooling on open frame models except where noted.
- Total power must not exceed 85W with convection cooling or 150W with forced-air cooling and Chassis/Cover option.
- 18. Total current from Outputs 3 & 4 must not exceed 3A with convection cooling.
- 19. Total current from Outputs 1 & 2 must not exceed 15A with convection cooling.
- 20. Rated 12A maximum with convection cooling.
- 21. Rated 20A maximum with convection cooling

MAXIMUM OUTPUT POWER vs. AMBIENT TEMPERATURE



| 12 | (Multiple) | crimp terminal housing with Molex 2478 or equivalent crimp terminal. |
|----|-----------------------------------|--|
| G | Ground | 0.187 quick disconnect terminal. |
| P3 | Remote/P.F./ Sense (Single) | 0.100 friction lock header mates with Molex 50-57-9008or equivalent crimp terminal housing with Molex type 71851 or equivalent crimp terminal. |
| P3 | P.F./Sense (Multiple) | 0.100 breakaway header mates with Molex 22-55-2061 or equivalent crimp terminal housing with Molex type 70058 or equivalent crimp terminal. |
| P4 | Remote (Multiple) | 0.100 breakaway header mates with Molex 50-57-9002 or equivalent crimp terminal housing with Molex type 71851 or equivalent crimp terminal |

REV. Y 12/18/2023

P1

P2

P2

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