## SINGLE/MULTI OUTPUT AC-DC

## **FEATURES:**

- 2 Year Warranty
- Universal 85-264V Input
- One to Four Outputs
- High Efficiency
- 0-70°C Operating Temperature Optional Chassis/Cover
- IEC 60601-1 3rd ed. Medical Cert.
- Compact 4.2" x 7.0" x 1.5" Size IEC 62368-1 2nd ed. Certification
  - IEC 60601-1-2 4th ed. EMC
  - Class B Emissions per EN55011/32 RoHS Compliant
  - Optional Remote Inhibit/Enable



CHASSIS/COVER

**OPEN FRAME** 

# SAFETY SPECIFICATIONS

Underwriters Laboration.

C TUs File E137708/E140259 **Underwriters Laboratories**  UL 62368-1:2014, 2nd Edition CAN/CSA-C22.2 No. 62368-1-14 AAMI/ANSI ES60601-1:2005/(R) 2012 CAN/CSA-C22.2 No. 60601-1:2014



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



EN 62368-1:2014, 2nd Edition TUV SUD America

EN 60601-1:2006/A1:2013



Low Voltage Directive (2014/35/EU of February 2014) RoHS Directive (Recast) (2015/863/EU of March 2015)



Electrical Equipment (Safety) Regulations 2016 SI No. 1101

Restriction of the Use of Certain Hazardous Substances in EEE Regulations 2012 SI No. 3032 + 2019 SI No.492

## **MODEL LISTING**

MODEL NO.	OUTPUT 1 <sub>(21)</sub>	OUTPUT 2 <sub>(21)</sub>	OUTPUT 3 <sub>(20)</sub>	OUTPUT 4 <sub>(20)</sub>
REL-185-4001	+3.3V/20A(22)	+5V/10A	+12V/2A	-12V/2A
REL-185-4002	+5V/20A(22)	+3.3V/10A	+12V/2A	-12V/2A
REL-185-4003	+5V/20A(22)	+3.3V/10A	+15V/2A	-15V/2A
REL-185-4004	+5V/20A(22)	-5V/10A	+12V/2A	-12V/2A
REL-185-4005	+5V/20A(22)	-5V/10A	+15V/2A	-15V/2A
REL-185-4006	+5V/20A(22)	+24V/3A	+12V/2A	-12V/2A
REL-185-4007	+5V/20A <sub>(22)</sub>	+24V/3A	+15V/2A	-15V/2A
REL-185-3001	+5V/20A <sub>(22)</sub>	+12V/5A		-12V/3A
REL-185-3002	+5V/20A(22)	+15V/4A		-15V/3A
REL-185-2001	+3.3V/20A(22)	+5V/10A		
REL-185-2002	+5V/20A <sub>(22)</sub>	+12V/8A		
REL-185-2003	+5V/20A <sub>(22)</sub>	+24V/4A		
REL-185-2004	+12V/10A	-12V/6A		
REL-185-2005	+15V/8A	-15V/5A		
REL-185-2006	+15V/6A	+24V/4A		
REL-185-2007	+35V/3.5A	+12V/5.2A		
REL-185-1001	2.5V/37A <sub>(23)</sub>			,
REL-185-1002	3.3V/37A <sub>(23)</sub>			
REL-185-1003	5V/37A <sub>(23)</sub>			
REL-185-1004	12V/15.4A			
REL-185-1005	15V/12.3A			
REL-185-1006	24V/7.7A			
REL-185-1007	28V/6.6A			
REL-185-1008	48V/3.8A			
REL-185-1009	6.3V/29A <sub>(23)</sub>			

# **ORDERING INFORMATION**

Consult factory for alternate output configurations. Consult factory for positive, negative or floating outputs. Please specify the following optional features when ordering:

CO - Cover TS - Terminal Strip

CH - Chassis

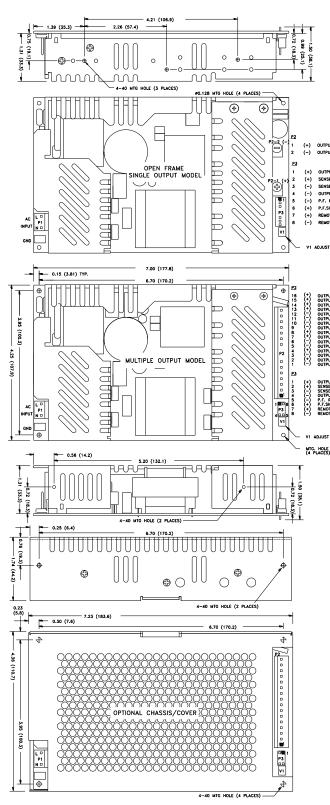
RE - Remote Inhibit I/O - Isolated Outputs

Total Output Power at 50°C <sub>(1)</sub>	PUT SPECIF 135W		n Cooled(16)(18)
(See Derating Chart)	185W		Cooled(15)(17)(19)
Output Voltage Centering	Output 1:	± 0.5%	(All outputs at 50% load)
	Output 2:	$\pm$ 5.0%	
	Output 3:	± 5.0%	
Output Valtage Adjust Dange	Output 4:	± 5.0% 95 - 105%	
Output Voltage Adjust Range Load Regulation	Output 1: Output 1:	0.5%	(10-100% load change)
Load Negulation	Output 1:	5.0%	(10-100% load change)
	(4001,4,5, 2001)		(20-100% load change)
	(4002,4003)	15.0%	(20-100% load change)
	Output 3:	5.0%	(10-100% load change)
Source Regulation	Output 4:	5.0% 0.5%	(10-100% load change)
Cross Regulation	Outputs 1 – 4: Outputs 2 – 4:	6.0%	
Output Noise	Outputs 1 – 4:	1.0%	
Turn on Overshoot	None		
Transient Response	Outputs 1 – 4		
Voltage Deviation	5.0%		
Recovery Time	500μS		
Load Change Output Overvoltage Protection	50% to 100% Output 1:	110% to 1	50%
Output Overvoitage Protection  Output Overpower Protection			on/off, auto recovery
Hold Up Time	16ms min., Full F		
Start Up Time	5 Seconds, 120V	'Input	
INP	UT SPECIFIC	CATION	S
Protection Class	1		
Source Voltage	85 – 264 Volts A	<u> </u>	
Frequency Range	47 – 63 Hz		
Peak Inrush Current	40A	Dames 22	N/
Efficiency Power Factor	0.95 (Full Power,		OV, varies by model
	MENTAL SP		ATIONS
Ambient Operating	0°C to + 70°C	_011 10/	THORE
Temperature Range	Derating: See Po	wer Rating	Chart
Ambient Storage Temp. Range	- 40°C to + 85°C		
Temperature Coefficient	Outputs 1 – 4:	0.02%	
	RAL SPECIF	FICATIO	NS
Means of Protection			
Primary to Secondary	2MOPP (Means		
Primary to Ground Secondary to Ground	1MOPP (Means		ilt factory for 1MOPP)
Dielectric Strength <sub>(8, 9)</sub>	Operational insul	ation(const	intractory for TIMOL 1
Reinforced Insulation	5656 VDC, Prima	ary to Secor	idary
Basic Insulation	2121 VDC, Prima		
Operational Insulation	707 VDC, Seco	ndary to Gro	ound
Leakage Current	-200A NO -10	004 050	
		OULA SEC	
Earth Leakage	<300µA NC, <10		
Earth Leakage Touch Current	<100µA NC, <50	0µA SFC	ilure 10 ms
Earth Leakage Touch Current	<100µA NC, <50 Logic low with inperior to	Out power fa Output 1 dr	opping 1%
Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional)	<100µA NC, <50	Out power fa Output 1 dr	opping 1%
Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional) Remote Sense <sub>(10)</sub>	<100 µA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens	OµA SFC out power fa Output 1 dr nhibits all or ation of out	opping 1% utputs out cable losses
Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional) Remote Sense <sub>(10)</sub> Mean-Time Between Failures	<100µA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours m	OµA SFC out power fa Output 1 dr nhibits all or ation of out in., MIL-HD	opping 1% utputs out cable losses BK-217F, 25° C, GB
Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional) Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight	<100 µA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours m 1.70 Lbs. Open	OµA SFC out power far Output 1 dr nhibits all or ation of outpuin., MIL-HD Frame/ 2.70	opping 1% utputs out cable losses BK-217F, 25° C, GB Lbs. Chassis and Cover
Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional) Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight  EMCSPECIFICATION	<100µA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours m 1.70 Lbs. Open S (IEC 60601-1-	OµA SFC Out power far Output 1 dr nhibits all or ation of out oin., MIL-HD Frame/ 2.70 2:2014, 4	opping 1% utputs  but cable losses  BK-217F, 25° C, GB  Lbs. Chassis and Cover  Hed./IEC 61000-6-2:2005
Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional) Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge	<100µA NC, <50 Logic low with in minimum prior to Contact closure; 250mV compens 100,000 Hours m 1.70 Lbs. Open S (IEC 60601-1- EN 61000-4-2	OµA SFC out power fa Output 1 dr nhibits all or ation of out in., MIL-HD Frame/ 2.70 2:2014, 4 <sup>T</sup> ±8KV con	opping 1% utputs but cable losses BK-217F, 25° C, GB Lbs. Chassis and Cover Hed./IEC 61000-6-2:2005 tact / ±15KV air discharge
Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional) Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field	<100µA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours m 1.70 Lbs. Open S (IEC 60601-1- EN 61000-4-2 EN 61000-4-3	OµA SFC Out power fa Output 1 dr Inhibits all or ation of outpuin., MIL-HD Frame/ 2.70 2:2014, 4 ±8KV con 80MHz-2.	opping 1% utputs but cable losses BK-217F, 25° C, GB U.bs. Chassis and Cover ded./IEC 61000-6-2:2005 tact / ±15KV air discharge 7GHz, 10V/m, 80% AM
Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional) Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts	<100µA NC, <50 Logic low with in minimum prior to Contact closure is 100,000 Hours m 1.70 Lbs. Open S (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 EN 61000-4-4	OµA SFC out power far Output 1 dr nhibits all or ation of outpin., MIL-HD Frame/ 2.70 ±8KV con 80MHz-2. ±2 KV, 5k	opping 1% utputs put cable losses BK-217F, 25° C, GB J.bs. Chassis and Cover Hed./IEC 61000-6-2:2005 tact / ±15KV air discharge 7GHz, 10V/m, 80% AM Hz/100KHz
Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional) Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity	<100µA NC, <50 Logic low with in minimum prior to Contact closure is 100,000 Hours m 1.70 Lbs. Open S (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5	OµA SFC out power far Output 1 dr nhibits all or ation of outpin., MIL-HD Frame/ 2.70 ±8KV con 80MHz-2. ±2 KV, 5K ±2 KV line	opping 1% utputs but cable losses BK-217F, 25° C, GB J.bs. Chassis and Cover Hed./IEC 61000-6-2:2005 tact / ±15KV air discharge 7GHz, 10V/m, 80% AM Hz/100KHz to earth / ±1 KV line to line
Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional) Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity	<100µA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours m 10,000 Hours m EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-5 EN 61000-4-6	OµA SFC out power far Output 1 dr nhibits all or ation of out in., MIL-HD Frame/ 2.7( 2:2014, 4 <sup>1</sup> ±8KV con 80MHz-2. ±2 KV, 5k ±2 KV line 0.15 to 80	opping 1% utputs but cable losses BK-217F, 25° C, GB J.bs. Chassis and Cover Hed./IEC 61000-6-2:2005 tact / ±15KV air discharge 7GHz, 10V/m, 80% AM LHz/100KHz to earth / ±1 KV line to line MHz, 10V, 80% AM
Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional) Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity	<100µA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours m 100,000 Hours m S (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8	OµA SFC but power fa Output 1 dr nhibits all or ation of out in., MIL-HD Frame/ 2.7( 2:2014, 4 <sup>1</sup> ±8KV con 80MHz-2. ±2 KV, Sin ±2 KV, Sin 0.15 to 80 30A/m, 60	opping 1% utputs but cable losses BK-217F, 25° C, GB ILbs. Chassis and Cover Hed./IEC 61000-6-2:2005 tact / ±15KV air discharge 7GHz, 10V/m, 80% AM IHz/100KHz to to earth / ±1 KV line to line MHz, 10V, 80% AM IHz.
Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional) Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity	<100µA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours m 10,000 Hours m EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-5 EN 61000-4-6	OµA SFC but power fa Output 1 dr nhibits all or ation of out in., MIL-HD Frame/ 2.7( 2:2014, 4 <sup>1</sup> ±8KV con 80MHz-2. ±2 KV, Sin ±2 KV, Sin 0.15 to 80 30A/m, 60	opping 1% utputs but cable losses BK-217F, 25° C, GB JLbs. Chassis and Cover Hed./IEC 61000-6-2:2005 tact / ±15KV air discharge 7GHz, 10V/m, 80% AM Hz/100KHz to to earth / ±1 KV line to line MHz, 10V, 80% AM Hz. 5 cycles, 0-315° 100/240V A/
Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional) Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity	<100µA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours m 100,000 Hours m S (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8	OµA SFC but power fa Output 1 dr nhibits all or ation of out jin., MIL-HD Frame/ 2.7C 2:2014, 4 <sup>1</sup> ±8KV con 80MHz-2. ±2 KV, 5k ±2 KV line 0.15 to 80 30A/m, 60 0% Ur, 0.0 0% Ur, 1.0	opping 1% utputs put cable losses BK-217F, 25° C, GB ILbs. Chassis and Cover Hed./IEC 61000-6-2:2005/ tact / ±15KV air discharge 7GHz, 10V/m, 80% AM IHz/100KHz to to earth / ±1 KV line to line MHz, 10V, 80% AM Hz. 5 cycles, 0-315° 100/240V A/ cycles, 0° 100/240V A/
Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional) Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity	<100µA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours m 100,000 Hours m S (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8	0µA SFC out power fa Output 1 dr nhibits all or ation of out in., MIL-HD Frame / 2.2014, 41 ±8KV con 80MHz-2. ±2 KV, 5k ±2 KV line 0.15 to 80 30A/m, 60 0% U <sub>T</sub> , 0.4 0% U <sub>T</sub> , 1.7 0% U <sub>T</sub> , 2.7 0% U <sub>T</sub> , 2.7 0% U <sub>T</sub> , 2.9 0% U <sub>T</sub> ,	opping 1% utputs  Dut cable losses  BK-217F, 25° C, GB  J Lbs. Chassis and Cover  Hed./IEC 61000-6-2:2005  tact / ±15KV air discharge  7GHz, 10V/m, 80% AM  Hz/100KHz  to earth / ±1 KV line to line  MHz, 10V, 80% AM  Hz.  5 cycles, 0-315° 100/240V A/  0/12 cycles, 0° 100/240V B/  5/30 cycles, 0° 100/240V B/  5/30 cycles, 0° 100/240V B/
Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional) Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity Voltage Dips	<100µA NC, <50 Logic low with in minimum prior to Contact closure is 250mV compens 100,000 Hours m 1.70 Lbs. Open S (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-5 EN 61000-4-11	0µA SFC out power fa Output 1 dr nhibits all or ation of out in., MIL-HD Frame / 2.2014, 41 ±8KV con 80MHz-2. ±2 KV, 5k ±2 KV line 0.15 to 80 30A/m, 60 0% U <sub>T</sub> , 0.4 0% U <sub>T</sub> , 1.7 0% U <sub>T</sub> , 2.7 0% U <sub>T</sub> , 2.7 0% U <sub>T</sub> , 2.9 0% U <sub>T</sub> ,	opping 1%  utputs  but cable losses  BK-217F, 25° C, GB  J Lbs. Chassis and Cover  Hed./IEC 61000-6-2:2005  tact / ±15KV air discharge  7GHz, 10V/m, 80% AM  Hz/100KHz  to earth / ±1 KV line to line  MHz, 10V, 80% AM  Hz.  5 cycles, 0-315° 100/240V A/  0/12 cycles, 0° 100/240V B/  5/30 cycles, 0° 100/240V B/  5/30 cycles, 0° 100/240V B/
Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional) Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight EMCSPECIFICATION Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity Magnetic Field Immunity Voltage Dips Voltage Interruptions Radiated Emissions	<100µA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours m 1.70 Lbs. Open S (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-5 EN 61000-4-11 EN 61000-4-11 EN 61000-4-11	OµA SFC but power fa Output 1 dr nhibits all or ation of out iin., MIL-HD Frame/ 2.7C 2:2014, 41 ±8KV con 80MHz-2. ±2 KV, 5k ±2 KV line 0.15 to 80 30A/m, 60 0% U <sub>T</sub> , 0.1 0% U <sub>T</sub> , 1 40% U <sub>T</sub> , 1 70% U <sub>T</sub> , 2 0% U <sub>T</sub> , 30 Class B	opping 1% utputs  Dut cable losses  BK-217F, 25° C, GB  J Lbs. Chassis and Cover  Hed./IEC 61000-6-2:2005  tact / ±15KV air discharge  7GHz, 10V/m, 80% AM  Hz/100KHz  to earth / ±1 KV line to line  MHz, 10V, 80% AM  Hz.  5 cycles, 0-315° 100/240V A/  0/12 cycles, 0° 100/240V B/  5/30 cycles, 0° 100/240V B/  5/30 cycles, 0° 100/240V B/
Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional) Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight	<100µA NC, <50 Logic low with in minimum prior to Contact closure is 250mV compens 100,000 Hours m 1.70 Lbs. Open S (IEC 60601-1- EN 61000-4-2 EN 61000-4-3 EN 61000-4-5 EN 61000-4-5 EN 61000-4-11	0µA SFC but power fa Output 1 dr nhibits all or ation of out iin., MIL-HD Frame/ 2.7C 2:2014, 4¹ ±8KV con 80MHz-2. ±2 KV, 5k ±2 KV line 0.15 to 80 30A/m, 60 0% U <sub>T</sub> , 0.1 0% U <sub>T</sub> , 0.1 70% U <sub>T</sub> , 0.2 0% U <sub>T</sub> , 30 0% U <sub>T</sub> , 30	opping 1% utputs  Dut cable losses  BK-217F, 25° C, GB  J Lbs. Chassis and Cover  Hed./IEC 61000-6-2:2005  tact / ±15KV air discharge  7GHz, 10V/m, 80% AM  Hz/100KHz  to earth / ±1 KV line to line  MHz, 10V, 80% AM  Hz.  5 cycles, 0-315° 100/240V A/  0/12 cycles, 0° 100/240V B/  5/30 cycles, 0° 100/240V B/  5/30 cycles, 0° 100/240V B/

All specifications are maximum at 25°C/185W unless otherwise stated, may vary by model and are subject to change without notice.



#### REL-185 SERIES MECHANICAL SPECIFICATIONS

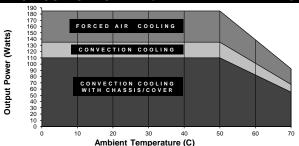


ALL DIMENSIONS IN INCHES (mm)

### APPLICATIONS INFORMATION

- Each output can deliver its rated current but Total Output Power must not exceed 185W, 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.
- 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.
- 3. 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.
- 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 ground pads must be electrically connected to a common metal chassis. Chassis/Cover option 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 135W with convection cooling on open-frame models except where noted.
- Total power must not exceed 185W with 300LFM forced-air cooling on open-frame models.
- 18. Total power must not exceed 110W with convection cooling and Chassis/Cover option.
- Total power must not exceed 185W with 300LFM forced-air cooling and Chassis/Cover option.
- 20. Total current from Outputs 3 & 4 must not exceed 3A with convection cooling.
- 21. Total current from Outputs 1 & 2 must not exceed 20A with convection cooling.
- 22. Rated 15A maximum with convection cooling.23. Rated 27A maximum with convection cooling.

# MAXIMUM OUTPUT POWER vs. AMBIENT TEMPERATURE



		. , ,
		CONNECTOR SPECIFICATIONS
P1	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.
P2	DC Output (Single)	6-32 screw down terminal mates with #6 ring tongue terminal. (10 in-lb max)
P2	DC Output (Multiple)	0.156 friction lock header mates with Molex 09-50-3161 or equivalent crimp terminal housing with Molex 2478 or equivalent crimp terminal.
G P3	Ground	0.187 quick disconnect terminal.
P3	Option/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	Option/Sense (Multiple)	0.100 breakaway header mates with Molex 22-55-2081 or equivalent crimp terminal housing with Molex type 71851 or equivalent crimp terminal.