# **150 WATTS**

# SINGLE/MULTI OUTPUT AC-DC

### **FEATURES:**

- Compact 3.8" x 6.0" x 1.3" Size
- 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 62368-1 2<sup>nd</sup> ed. Certification
- IEC 60601-1-2 4th ed. EMC
- Class B Emissions per EN55011/32
- RoHS Compliant
- Optional Remote Inhibit/Enable
- Optional Chassis/Cover



c <b>AL</b> us	Underwriters Labora File E137708/E1402		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/Certifica National and Group I		IEC 62368-1:2014 IEC 60601-1:2005		
	TUV SUD America		EN 62368-1:2014, 2nd Edition EN 60601-1:2006/A1:2013		
CE	Low Voltage Directiv RoHS Directive (Rec		(2014/35/EU of February 2014) (2015/863/EU of March 2015)		
UK CA	Electrical Equipment Restriction of the Use	e of Certain Haz			
	2012 SI No. 3032 + 2	MODEL L			
MODEL		MODEL L		<b>3</b> (18) <b>OUTPUT 4</b> (18	8)
	OUTPUT 1( 01 +3.3V/15A(20)	MODEL L		<b>3</b> (18) <b>OUTPUT 4</b> (18) -12V/2A	8)
MODEL	<b>OUTPUT 1</b> ( 01 +3.3V/15A(20)	MODEL L 19) OUTPUT	2(19) OUTPUT :	(-)	8)
MODEL REL-150-40	OUTPUT 1( 01 +3.3V/15A(20) 02 +5V/15A(20)	MODEL L 19) OUTPUT +5V/8A	2 <sub>(19)</sub> OUTPUT : +12V/2A	-12V/2A	3)
MODEL REL-150-40 REL-150-40	OUTPUT 1( 01 +3.3V/15A(20) 02 +5V/15A(20) 03 +5V/15A(20)	MODEL L 19) OUTPUT +5V/8A +3.3V/8A	2 <sub>(19)</sub> OUTPUT : +12V/2A +12V/2A	-12V/2A -12V/2A	B)
MODEL REL-150-40 REL-150-40 REL-150-40	OUTPUT 1( 01 +3.3V/15A(20) 02 +5V/15A(20) 03 +5V/15A(20) 04 +5V/15A(20)	MODEL L 19) OUTPUT +5V/8A +3.3V/8A +3.3V/8A	2(19) OUTPUT : +12V/2A +12V/2A +15V/2A	-12V/2A -12V/2A -15V/2A	3)
MODEL REL-150-40 REL-150-40 REL-150-40 REL-150-40	OUTPUT 1( 01 +3.3V/15A(20) 02 +5V/15A(20) 03 +5V/15A(20) 04 +5V/15A(20) 05 +5V/15A(20)	MODEL L 19) OUTPUT +5V/8A +3.3V/8A +3.3V/8A -5V/8A	2(19) OUTPUT ( +12V/2A +12V/2A +15V/2A +15V/2A +12V/2A	-12V/2A -12V/2A -15V/2A -12V/2A	8)
MODEL REL-150-40 REL-150-40 REL-150-40 REL-150-40 REL-150-40 REL-150-40 REL-150-40	OUTPUT 1( 01 +3.3V/15A(20) 02 +5V/15A(20) 03 +5V/15A(20) 04 +5V/15A(20) 05 +5V/15A(20) 06 +5V/15A(20) 06 +5V/15A(20) 07 +5V/15A(20)	MODEL L 19) OUTPUT +5V/8A +3.3V/8A +3.3V/8A -5V/8A -5V/8A	2(19) OUTPUT : +12V/2A +12V/2A +15V/2A +15V/2A +12V/2A +15V/2A	-12V/2A -12V/2A -15V/2A -12V/2A -12V/2A -15V/2A	3)
MODEL REL-150-40 REL-150-40 REL-150-40 REL-150-40 REL-150-40 REL-150-40	OUTPUT 1( 01 +3.3V/15A(20) 02 +5V/15A(20) 03 +5V/15A(20) 04 +5V/15A(20) 05 +5V/15A(20) 06 +5V/15A(20) 06 +5V/15A(20) 07 +5V/15A(20)	MODEL L 19) OUTPUT +5V/8A +3.3V/8A +3.3V/8A -5V/8A -5V/8A +24V/3A	2(19) OUTPUT 3 +12V/2A +12V/2A +15V/2A +12V/2A +15V/2A +15V/2A +12V/2A	-12V/2A -12V/2A -15V/2A -15V/2A -12V/2A -15V/2A -12V/2A	8)
MODEL REL-150-40 REL-150-40 REL-150-40 REL-150-40 REL-150-40 REL-150-40 REL-150-40	OUTPUT 1( 01 +3.3V/15A(20) 02 +5V/15A(20) 03 +5V/15A(20) 04 +5V/15A(20) 05 +5V/15A(20) 06 +5V/15A(20) 06 +5V/15A(20) 07 +5V/15A(20) 09 +24V/2.3A	MODEL L 19) OUTPUT +5V/8A +3.3V/8A +3.3V/8A -5V/8A -5V/8A +24V/3A +24V/3A	2(19) OUTPUT 3 +12V/2A +12V/2A +15V/2A +12V/2A +12V/2A +15V/2A +15V/2A	-12V/2A -12V/2A -15V/2A -12V/2A -12V/2A -15V/2A -12V/2A	B)
MODEL REL-150-40 REL-150-40 REL-150-40 REL-150-40 REL-150-40 REL-150-40 REL-150-40	OUTPUT 1( 01 +3.3V/15A(20) 02 +5V/15A(20) 03 +5V/15A(20) 04 +5V/15A(20) 05 +5V/15A(20) 06 +5V/15A(20) 07 +5V/15A(20) 09 +24V/2.3A 10 5V/15A(20) 01 +5V/15A(20)	MODEL L 19) OUTPUT +5V/8A +3.3V/8A +3.3V/8A -5V/8A -5V/8A +24V/3A +24V/3A +10V/1A	2(19) OUTPUT 3 +12V/2A +12V/2A +15V/2A +12V/2A +12V/2A +15V/2A +15V/2A +6V/1.6A	-12V/2A -12V/2A -15V/2A -12V/2A -15V/2A -12V/2A -15V/2A -6V/.31A	B)

	0 17 107 (20)			
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	
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			
	ORD	DERING INF	ORMATION	
0 11 1 1 1				

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.

# AUTO

	PUT SPECIF		
Total Output Power at 50°C(1)	100W		
(See Derating Chart) Output Voltage Centering	150W Output 1:	+orced-Air ± 0.5%	Cooled(15)(16)(17) (All outputs at 50% load)
ouput voltage ventennig	Output 1:	± 0.5% ± 5.0%	, oaipais ai oo /o loau)
	Output 3:	± 5.0%	
	Output 4:	± 5.0%	
Output Voltage Adjust Range	Output 1:	95-105%	
Load Regulation	Output 1:	0.5%	(10-100% load change)
	Output 2:		(10-100% load change)
	(4001-5 Models)		(20-100% load change)
	(2001 Model)		(20-100% load change)
	Output 3: Output 4:		(10-100% load change) (10-100% load change)
Source Regulation	Outputs 1 – 4:	0.5%	(10-100% load change)
Cross Regulation	Outputs 2 – 4:	5.0%	
Output Noise	Outputs 1 – 4:	1.0%	
Turn on Overshoot	None	1.070	
Transient Response	Outputs 1 – 4		
Voltage Deviation	5.0%		
Recovery Time	500µS		
Load Change	50% to 100%		
Output Overvoltage Protection	Output 1:	110% to 15	
Output Overpower Protection			n/off, auto recovery
Hold Up Time	16mS min., Full F	ower, 85V li	nput
Start Up Time	5 Seconds, 120V		
		ATIONS	
Protection Class	85 – 264 Volts A	<b>`</b>	
Source Voltage	$\frac{85 - 264}{47 - 63}$ Hz	J	
Frequency Range Peak Inrush Current	47 – 63 HZ 40A		
Efficiency	40A 82% Typ., Full Power, 230V, varies by model		
Power Factor	0.95 (Full Power,		
	MENTAL SP		TIONS
Ambient Operating	0°C to + 70°C		
Temperature Range	Derating: See Po	wer Rating C	Chart
Ambient Storage Temp. Range	- 40°C to + 85°C		
Temperature Coefficient	Outputs 1 – 4:	0.02%/	°C
•	3,000m ASL – O	perating - Me	edical 60601-1
Altitude	5,000m ASL – O		
	12,192m ASL – N	Ion-Operatin	g
	RAL SPECIE		NS
Means of Protection			
	2MOPP (Means		,
Primary to Secondary	· ·		
Primary to Ground	1MOPP (Means		
Primary to Ground Secondary to Ground	1MOPP (Means		tection)
Primary to Ground Secondary to Ground Dielectric Strength <sub>(8,9)</sub>	1MOPP (Means Operational Insul	ation(Consul	factory for 1MOPP)
Primary to Ground Secondary to Ground Dielectric Strength <sub>(8, 9)</sub> Reinforced Insulation	1MOPP (Means Operational Insul 5656 VDC, Prima	ation(Consul	tfactory for 1MOPP)
Primary to Ground Secondary to Ground Dielectric Strength <sub>(8, 9)</sub> Reinforced Insulation Basic Insulation	1MOPP (Means Operational Insul 5656 VDC, Prima 2121 VDC, Prima	ation(Consul ary to Second ary to Ground	factory for 1MOPP)
Primary to Ground Secondary to Ground Dielectric Strength <sub>(8, 9)</sub> Reinforced Insulation Basic Insulation Operational Insulation	1MOPP (Means Operational Insul 5656 VDC, Prima	ation(Consul ary to Second ary to Ground	factory for 1MOPP)
Primary to Ground Secondary to Ground Dielectric Strength <sub>(8, 9)</sub> Reinforced Insulation Basic Insulation Operational Insulation	1MOPP (Means Operational Insul 56556 VDC, Prima 2121 VDC, Prima 707 VDC, Seco <300µA NC, <10	ation(Consul ary to Second ary to Ground ndary to Grou 00µA SFC	factory for 1MOPP)
Primary to Ground Secondary to Ground Dielectric Strength(8, 9) Reinforced Insulation Basic Insulation Operational Insulation Leakage Current	1MOPP (Means Operational Insul 56556 VDC, Prima 2121 VDC, Prima 707 VDC, Seco <300µA NC, <10 <100µA NC, <50	ation(Consul ary to Second ary to Ground ndary to Ground 00µA SFC 0µA SFC	tfactory for 1MOPP) lary und
Primary to Ground Secondary to Ground Dielectric Strength <sub>(8, 9)</sub> Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current	1MOPP (Means Operational Insul 5656 VDC, Prima 2121 VDC, Prima 707 VDC, Seco <300µA NC, <10 <100µA NC, <50 Logic low with inp	ation(Consul ary to Second ary to Ground ndary to Ground 00µA SFC 0µA SFC but power fail	Ifactory for 1MOPP) lary und ure 10 ms
Primary to Ground Secondary to Ground Dielectric Strength <sub>(8,9)</sub> Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub>	1MOPP (Means Operational Insul 5656 VDC, Prima 2121 VDC, Prima 707 VDC, Seco <300µA NC, <10 <100µA NC, <50 Logic low with in minimum prior to	ation(Consul ary to Second ary to Ground ndary to Ground 00µA SFC 0µA SFC Dut power fail Output 1 dro	tfactory for 1MOPP) lary und ure 10 ms pping 1%
Primary to Ground Secondary to Ground Dielectric Strength <sub>(8,9)</sub> Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional)	1MOPP (Means Operational Insul 5656 VDC, Prima 2121 VDC, Prima 707 VDC, Seco <300µA NC, <10 <100µA NC, <50 Logic low with inp minimum prior to Contact closure i	ation(Consul ary to Second ary to Ground adary to Ground 00µA SFC 0µA SFC 0µA SFC but power fail Output 1 dro nhibits all out	tfactory for 1MOPP) lary und ure 10 ms pping 1% puts
Primary to Ground Secondary to Ground Dielectric Strength <sub>(8,9)</sub> Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional) Remote Sense <sub>(10)</sub>	1MOPP (Means Operational Insul 5656 VDC, Prima 2121 VDC, Prima 707 VDC, Seco <300µA NC, <10 <100µA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens	ation(Consul ry to Second ry to Ground ndary to Ground 00µA SFC 0µA SFC 0µA SFC out power fail Output 1 dro nhibits all out ation of output	Ifactory for 1MOPP) lary und ure 10 ms pping 1% puts ut cable losses
Primary to Ground Secondary to Ground Dielectric Strength <sub>(8,9)</sub> Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional) Remote Sense <sub>(10)</sub> Mean-Time Between Failures	1MOPP (Means Operational Insul 56556 VDC, Prima 2121 VDC, Prima 707 VDC, Seco <300µA NC, <10 <100µA NC, <50 Logic low with ing minimum prior to Contact closure i 250mV compens 100,000 Hours m	ation(Consul ry to Second ry to Ground ndary to Ground 00µA SFC 0µA SF	Ifactory for 1MOPP) lary und ure 10 ms pping 1% puts ut cable losses K-217F, 25° C, GB
Primary to Ground Secondary to Ground Dielectric Strength <sub>(8, 9)</sub> Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional) Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight	1MOPP (Means Operational Insul 56556 VDC, Prima 2121 VDC, Prima 707 VDC, Seco <300µA NC, <10 <100µA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours m 1.15 Lbs. Open	ation(Consul any to Second ury to Ground ondary to Ground 00µA SFC 0µA SFC out power fail Output 1 dro nhibits all out tation of output in., MIL-HDE Frame/ 1.82	tfactory for 1MOPP) lary ure 10 ms pping 1% puts ut cable losses K-217F, 25° C, GB Lbs. Chassis and Cover
Primary to Ground Secondary to Ground Dielectric Strength <sub>(8, 9)</sub> Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional) Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight EMCSPECIFICATION	1MOPP (Means Operational Insul 56556 VDC, Prima 2121 VDC, Prima 707 VDC, Seco <300μA NC, <10 <100μA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours m 1.15 Lbs. Open S (IEC 60601-1-2	ation(Consul any to Second ury to Ground ondary to Ground 00µA SFC 0µA SFC out power fail Output 1 dro hhibits all out ation of output in., MIL-HDE Frame/ 1.82 2:2014, 4TH	Ifactory for 1MOPP) lary ure 10 ms pping 1% puts ut cable losses IK-217F, 25° C, GB Lbs. Chassis and Cover ed./IEC 61000-6-2:2005)
Primary to Ground Secondary to Ground Dielectric Strength <sub>(8, 9)</sub> Reinforced Insulation Basic Insulation Operational Insulation Leakage Current 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	1MOPP (Means Operational Insul 56556 VDC, Prima 2121 VDC, Prima 707 VDC, Seco <300μA NC, <10 <100μA NC, <50 Logic low with in minimum prior to Contact closure i 250mV compens 100,000 Hours m 1.15 Lbs. Open <b>S (IEC 60601-1-2</b> EN 61000-4-2	ation(Consul any to Second ry to Ground ondary to Ground ondary to Ground ondary to Ground ondary to Ground ondary to Ground ondary to Ground onter the the the the provided of the	tfactory for 1MOPP) lary ure 10 ms pping 1% puts ut cable losses K-217F, 25° C, GB Lbs. Chassis and Cover ed./IEC 61000-6-2:2005) act / ±15KV air discharge
Primary to Ground Secondary to Ground Dielectric Strength <sub>(8, 9)</sub> Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional) Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight <b>EMCSPECIFICATION</b> Electrostatic Discharge Radiated Electromagnetic Field	1MOPP (Means Operational Insul 56556 VDC, Prima 2121 VDC, Prima 707 VDC, Seco <300μA NC, <10 <100μA NC, <50 Logic low with inp minimum prior to Contact closure i 250mV compens 100,000 Hours m 1.15 Lbs. Open <b>S (IEC 60601-1.2</b> EN 61000-4-2 EN 61000-4-3	ation(Consul any to Second ry to Ground ondary to Ground ondary to Ground ondary to Ground ondary to Ground ondary to Ground ont power fail Output 1 dro nhibits all out in., MIL-HDE Frame/ 1.82 2:2014, 4TH ±8KV conta 80MHz-2.7	tfactory for 1MOPP) lary ure 10 ms pping 1% puts ut cable losses IK-217F, 25° C, GB Lbs. Chassis and Cover ed//IEC 61000-6-2:2005) act / ±15KV air discharge GHz, 10V/m, 80% AM
Primary to Ground Secondary to Ground Dielectric Strength <sub>(8, 9)</sub> Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional) Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight <b>EMCSPECIFICATION</b> Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts	1MOPP (Means Operational Insul 56556 VDC, Prima 2121 VDC, Prima 707 VDC, Seco <300μA NC, <10 <100μA NC, <50 Logic low with inp minimum prior to Contact closure i 250mV compens 100,000 Hours m 1.15 Lbs. Open <b>S (IEC 60601-1-2</b> EN 61000-4-3 EN 61000-4-4	ation(Consul any to Second ry to Ground ondary to Ground ondary to Ground ondary to Ground ondary to Ground ondary to Ground ondary to Ground output 1 dro nhibits all out ation of output ation of output ati	tfactory for 1MOPP) lary ure 10 ms pping 1% puts ut cable losses W-217F, 25° C, GB Lbs. Chassis and Cover ed./IEC 61000-6-2:2005) ct / ±15KV air discharge GHz, 10V/m, 80% AM
Primary to Ground Secondary to Ground Dielectric Strength <sub>(8, 9)</sub> Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional) Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight <b>EMCSPECIFICATION</b> Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity	1MOPP (Means Operational Insul 56556 VDC, Prima 2121 VDC, Prima 707 VDC, Seco <300μA NC, <10 <100μA NC, <50 Logic low with inp minimum prior to Contact closure i 250mV compens 100,000 Hours m 1.15 Lbs. Open <b>S (IEC 60601-1-2</b> EN 61000-4-2 EN 61000-4-3 EN 61000-4-5	ation(Consul any to Second any to Ground ondary to Ground	Ifactory for 1MOPP) lary ure 10 ms pping 1% puts ut cable losses W-217F, 25° C, GB Lbs. Chassis and Cover ed//IEC 61000-6-2:2005) cdt / ±15KV air discharge GHz, 10V/m, 80% AM tz/100KHz to earth / ±1 KV line to line
Primary to Ground Secondary to Ground Dielectric Strength <sub>(8, 9)</sub> Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional) Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight <b>EMCSPECIFICATION</b> Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity	1MOPP (Means Operational Insul 56556 VDC, Prima 2121 VDC, Prima 707 VDC, Seco <300μA NC, <10 <100μA NC, <50 Logic low with inp minimum prior to Contact closure i 250mV compens 100,000 Hours m 1.15 Lbs. Open <b>S (IEC 60601-1-5</b> EN 61000-4-3 EN 61000-4-3 EN 61000-4-5 EN 61000-4-5	ation(Consul any to Second any to Ground ondary to Ground	If actory for 1MOPP) lary ure 10 ms pping 1% puts ut cable losses iK-217F, 25° C, GB Lbs. Chassis and Cover edt/IEC 61000-6-2:2005) act / ±15KV air discharge GHz, 10V/m, 80% AM iz/100KHz to earth / ±1 KV line to line 1Hz, 10V, 80% AM
Primary to Ground Secondary to Ground Dielectric Strength <sub>(8, 9)</sub> Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional) Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight <b>ENCSPECIFICATION</b> Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity	1MOPP (Means Operational Insul 56556 VDC, Prima 2121 VDC, Prima 707 VDC, Seco <300μA NC, <10 <100μA NC, <50 Logic low with inp minimum prior to Contact closure i 250mV compens 100,000 Hours m 1.15 Lbs. Open <b>S (IEC 60601-1:</b> EN 61000-4-3 EN 61000-4-3 EN 61000-4-5 EN 61000-4-8	ation(Consul any to Second any to Ground any to	If actory for 1MOPP) lary ure 10 ms pping 1% puts ut cable losses UK-217F, 25° C, GB Lbs. Chassis and Cover ed./IEC 61000-6-2:2005) act / ±15KV air discharge GHz, 10V/m, 80% AM 1z/100KHz to earth / ±1 KV line to line 1Hz, 10V, 80% AM Hz.
Primary to Ground Secondary to Ground Dielectric Strength <sub>(8, 9)</sub> Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal <sub>(14)</sub> Remote Inhibit (optional) Remote Sense <sub>(10)</sub> Mean-Time Between Failures Weight <b>EMCSPECIFICATION</b> Electrostatic Discharge Radiated Electromagnetic Field Electrical Fast Transients/Bursts Surge Immunity Conducted Immunity	1MOPP (Means Operational Insul 56556 VDC, Prima 2121 VDC, Prima 707 VDC, Seco <300μA NC, <10 <100μA NC, <50 Logic low with inp minimum prior to Contact closure i 250mV compens 100,000 Hours m 1.15 Lbs. Open <b>S (IEC 60601-1-5</b> EN 61000-4-3 EN 61000-4-3 EN 61000-4-5 EN 61000-4-5	ation(Consul any to Second ry to Ground ondary to Ground ondary to Ground ondary to Ground ondary to Ground ondary to Ground ont power fail Output 1 dro nhibits all out in., MIL-HDE Frame/ 1.82 2:2014, 4TH ±8KV conta 80MHz-2.7 ±2 KV, 5KH ±2 K	tfactory for 1MOPP) lary ure 10 ms pping 1% puts ut cable losses kK-217F, 25° C, GB Lbs. Chassis and Cover ed./IEC 61000-6-2:2005) act / ±15KV air discharge GHz, 10V/m, 80% AM tz/100KHz to earth / ±1 KV line to line IHz, 10V, 80% AM Hz. cycles, 0-315° 100/240V A/ (12 cycles, 0° 100/240V A/ (12 cycles, 0° 100/240V B/
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INTEGRATED POWER DESIGNS 300 Stewart Road Wilkes-Barre, PA 18706 Phone: (570) 824-4666 Fax: (570) 824-4843 Email: sales@ipdpower.com Web: www.ipdpower.com

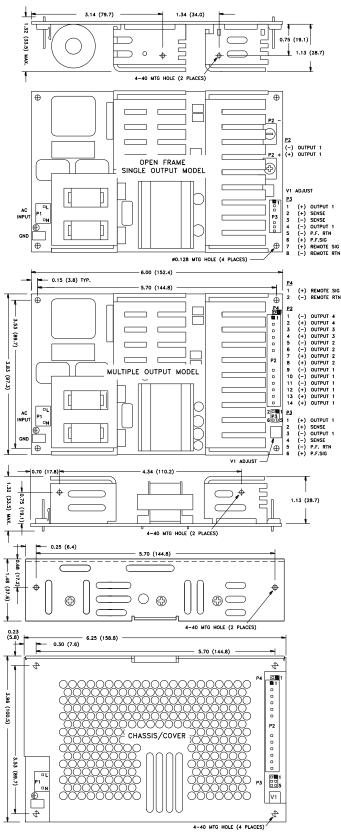
CH - Chassis

TS - Terminal Strips

CO - Cover

RE - Remote Inhibit

I/O - Isolated Outputs

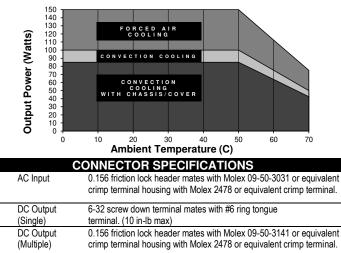


ALL DIMENSIONS IN INCHES (mm)

#### 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 2 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 3. 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
- A minimum load of 10% is required on Output 1 to ensure proper regulation of remaining 5. outputs
- 6. 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.
- 7. 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,
- This product was type-tested and safety-certified using the dielectric strength test voltages 8 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.
- 9. This power supply has been safety-approved and final-tested using a DC dielectric strength test. Please consult factory before performing an AC dielectric strength test.
- 10. Remote-Sense terminals may be used to compensate for cable losses up to 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. 11. 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.
- 13. Common RF shielding precautions may need to be taken to assure emissions compliance. Refer to Operating Instructions for additional information.
- 14. 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 15. components or cover when forced-air cooling is required.
- 16. Total power must not exceed 100W with convection cooling or 150W with forced-air cooling on open frame models except where noted.
- 17. 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.
- Rated 12A maximum with convection cooling. 20
- 21 Rated 20A maximum with convection cooling

## MAXIMUM OUTPUT POWER vs. AMBIENT TEMPERATURE



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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.

P1

P2

P2