185 WATTS

REL-185 SERIES AC-DC

FEATURES:

- RoHS Compliant
- Universal 85-264 VAC Input
- High Efficiency

- 2 Year Warranty
 Fits 1U Applications
- EN 60950-1 ITE Certification
- EN 60601-1 Medical Certification Class B Emissions for EN 55011/22
- Advanced SMT Design
 Compact 4.2" x 7.0" x 1.5" Size
 EMC to EN 61000-6-2 & EN 60601-1-2
 - Optional Chassis and Cover

CHASSIS/COVER

• One to Four Outputs



OPEN CHASSIS

SAFETY SPECIFICATIONS

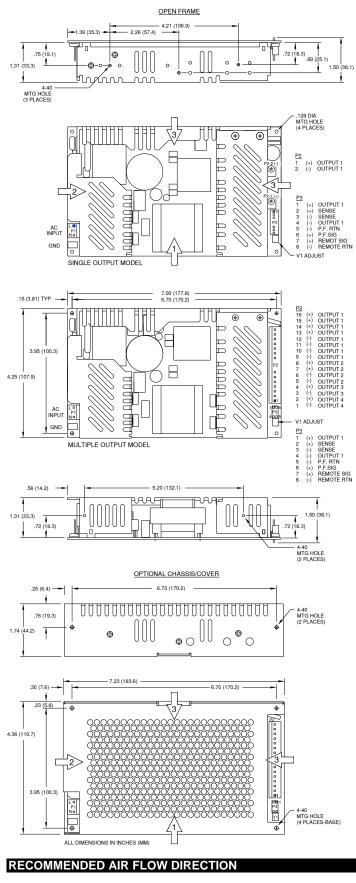
General			Protection Cla Overvoltage C Pollution Degr	ategory: II
			9	
	Underwriters			end Edition, 2007
c Ruus	Laboratories			st Edition, 2006
	File E137708/E	140259		S 60601-1, 2005
				ertificates (including all
TÊĈEF				Group Deviations)
CB				1:2009, Second Edition
SCHEME				988 +A1:1991 +A2:1995
				2005 Third Edition
	UL Recognition			2.2 No. 60950-1-07,
c 🔁 us	Mark for Canad	а	2 nd Edition	
U 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	File E137708/E			2.2 No. 601-1-M90, 2005
		110207		2.2 No. 60601-1:2008
			EN 60950-1/A	
	TUV		EN 60601-1/A	
			EN 60601-1:2	006
"			Low Voltage D	Diractiva
CE				of December 2006)
			(2000/95/200	December 2000)
MODEL LIS				
MODEL NO.	OUTPUT 1(8)	OUTPUT 2	2 ₍₈₎ OUTPUT :	3(7) OUTPUT 4(7)
REL-185-4001	+3.3V/20A(1)	+5V/10A	+12V/2A	-12V/2A
REL-185-4002	+5V/20A(1)	+3.3V/10A	+12V/2A	-12V/2A
REL-185-4003	+5V/20A(1)	+3.3V/10A	+15V/2A	-15V/2A
REL-185-4004	+5V/20A(1)	-5V/10A	+12V/2A	-12V/2A
REL-185-4004 REL-185-4005	+5V/20A ₍₁₎ +5V/20A ₍₁₎	-5V/10A -5V/10A	+12V/2A +15V/2A	-12V/2A -15V/2A
REL-185-4004 REL-185-4005 REL-185-4006	+5V/20A ₍₁₎ +5V/20A ₍₁₎ +5V/20A ₍₁₎	-5V/10A -5V/10A +24V/3A	+12V/2A +15V/2A +12V/2A	-12V/2A -15V/2A -12V/2A
REL-185-4004 REL-185-4005 REL-185-4006 REL-185-4007	+5V/20A ₍₁₎ +5V/20A ₍₁₎ +5V/20A ₍₁₎ +5V/20A ₍₁₎	-5V/10A -5V/10A +24V/3A +24V/3A	+12V/2A +15V/2A	-12V/2A -15V/2A -12V/2A -15V/2A
REL-185-4004 REL-185-4005 REL-185-4006 REL-185-4007 REL-185-3001	+5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1)	-5V/10A -5V/10A +24V/3A +24V/3A +12V/5A	+12V/2A +15V/2A +12V/2A	-12V/2A -15V/2A -12V/2A -12V/2A -15V/2A -12V/3A
REL-185-4004 REL-185-4005 REL-185-4006 REL-185-4007 REL-185-3001 REL-185-3002	+5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1)	-5V/10A -5V/10A +24V/3A +24V/3A +12V/5A +15V/4A	+12V/2A +15V/2A +12V/2A	-12V/2A -15V/2A -12V/2A -15V/2A
REL-185-4004 REL-185-4005 REL-185-4006 <u>REL-185-4007</u> REL-185-3001 <u>REL-185-3002</u> REL-185-2001	+5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +3.3V/20A(1)	-5V/10A -5V/10A +24V/3A +24V/3A +12V/5A +15V/4A +5V/10A	+12V/2A +15V/2A +12V/2A	-12V/2A -15V/2A -12V/2A -12V/2A -15V/2A -12V/3A
REL-185-4004 REL-185-4005 REL-185-4006 REL-185-4007 REL-185-3001 REL-185-3002 REL-185-2001 REL-185-2002	$\begin{array}{c} +5V/20A(1) \\ +5V/20A(1) \\ +5V/20A(1) \\ +5V/20A(1) \\ +5V/20A(1) \\ +5V/20A(1) \\ +3.3V/20A(1) \\ +5V/20A(1) \end{array}$	-5V/10A -5V/10A +24V/3A +12V/5A +12V/5A +15V/4A +5V/10A +12V/8A	+12V/2A +15V/2A +12V/2A	-12V/2A -15V/2A -12V/2A -12V/2A -15V/2A -12V/3A
REL-185-4004 REL-185-4005 REL-185-4006 <u>REL-185-4007</u> REL-185-3001 <u>REL-185-3002</u> REL-185-2001	+5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +3.3V/20A(1)	-5V/10A -5V/10A +24V/3A +24V/3A +12V/5A +15V/4A +5V/10A	+12V/2A +15V/2A +12V/2A	-12V/2A -15V/2A -12V/2A -12V/2A -15V/2A -12V/3A
REL-185-4004 REL-185-4005 REL-185-4005 REL-185-4007 REL-185-3001 REL-185-3002 REL-185-2001 REL-185-2002 REL-185-2003	+5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +3.3V/20A(1) +5V/20A(1) +5V/20A(1)	-5V/10A -5V/10A +24V/3A +24V/3A +12V/5A +15V/4A +5V/10A +12V/8A +24V/4A	+12V/2A +15V/2A +12V/2A	-12V/2A -15V/2A -12V/2A -12V/2A -15V/2A -12V/3A
REL-185-4004 REL-185-4005 REL-185-4006 REL-185-3001 REL-185-3002 REL-185-2001 REL-185-2002 REL-185-2003 REL-185-2004	$\begin{array}{c} +5V/20A(t)\\ +5V/20A(t)\\ +5V/20A(t)\\ +5V/20A(t)\\ +5V/20A(t)\\ +5V/20A(t)\\ +3.3V/20A(t)\\ +3.3V/20A(t)\\ +5V/20A(t)\\ +5V/20A(t)\\ +5V/20A(t)\\ +12V/10A\\ \end{array}$	-5V/10A -5V/10A +24V/3A +24V/3A +12V/5A +15V/4A +5V/10A +12V/8A +24V/4A -12V/6A	+12V/2A +15V/2A +12V/2A	-12V/2A -15V/2A -12V/2A -12V/2A -15V/2A -12V/3A
REL-185-4004 REL-185-4005 REL-185-4006 REL-185-4007 REL-185-3002 REL-185-3002 REL-185-2001 REL-185-2003 REL-185-2004 REL-185-2005	+5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +3.3V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +12V/10A +15V/8A	-5V/10A -5V/10A +24V/3A +24V/3A +12V/5A +15V/4A +5V/10A +12V/8A +24V/4A -12V/6A -15V/5A	+12V/2A +15V/2A +12V/2A	-12V/2A -15V/2A -12V/2A -12V/2A -15V/2A -12V/3A
REL-185-4004 REL-185-4005 REL-185-4006 REL-185-4007 REL-185-3001 REL-185-2001 REL-185-2002 REL-185-2003 REL-185-2004 REL-185-2005 REL-185-2006	+5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +3.3V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +12V/10A +15V/8A +15V/6A	-5V/10A -5V/10A +24V/3A +24V/3A +12V/5A +15V/4A +5V/10A +12V/8A +24V/4A -12V/6A -15V/5A +24V/4A	+12V/2A +15V/2A +12V/2A	-12V/2A -15V/2A -12V/2A -12V/2A -15V/2A -12V/3A
REL-185-4004 REL-185-4005 REL-185-4007 REL-185-3001 REL-185-3002 REL-185-2001 REL-185-2003 REL-185-2004 REL-185-2004 REL-185-2006 REL-185-2007 REL-185-2007 REL-185-2007 REL-185-1001 REL-185-1001	+5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +12V/10A +15V/6A +15V/6A +35V/35A 2.5V/37A(2)	-5V/10A -5V/10A +24V/3A +24V/3A +12V/5A +15V/4A +5V/10A +12V/8A +24V/4A -12V/6A -15V/5A +24V/4A	+12V/2A +15V/2A +12V/2A	-12V/2A -15V/2A -12V/2A -12V/2A -15V/2A -12V/3A
REL-185-4004 REL-185-4005 REL-185-4007 REL-185-3002 REL-185-3002 REL-185-2001 REL-185-2003 REL-185-2004 REL-185-2004 REL-185-2006 REL-185-2007 REL-185-2007 REL-185-1001 REL-185-1002 REL-185-1003	+5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +3.3V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +12V/10A +15V/6A +15V/6A +35V/3.5A 2.5V/37A(2) 5V/37A(2)	-5V/10A -5V/10A +24V/3A +24V/3A +12V/5A +15V/4A +5V/10A +12V/8A +24V/4A -12V/6A -15V/5A +24V/4A	+12V/2A +15V/2A +12V/2A	-12V/2A -15V/2A -12V/2A -12V/2A -15V/2A -12V/3A
REL-185-4004 REL-185-4005 REL-185-4006 REL-185-3001 REL-185-3002 REL-185-2002 REL-185-2004 REL-185-2004 REL-185-2004 REL-185-2007 REL-185-2007 REL-185-2007 REL-185-1001 REL-185-1002 REL-185-1003 REL-185-1004	+5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +3.3V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +12V/10A +15V/8A +15V/6A +35V/3.5A 2.5V/37A(2) 3.3V/37A(2) 12V/15.4A	-5V/10A -5V/10A +24V/3A +24V/3A +12V/5A +15V/4A +5V/10A +12V/8A +24V/4A -12V/6A -15V/5A +24V/4A	+12V/2A +15V/2A +12V/2A	-12V/2A -15V/2A -12V/2A -12V/2A -15V/2A -12V/3A
REL-185-4004 REL-185-4005 REL-185-4006 REL-185-3001 REL-185-3001 REL-185-2001 REL-185-2002 REL-185-2004 REL-185-2005 REL-185-2005 REL-185-2007 REL-185-2007 REL-185-1001 REL-185-1003 REL-185-1004 REL-185-1004 REL-185-1005	+5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +3.3V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +12V/10A +15V/8A +15V/6A +15V/6A +35V/37A(2) 5V/37A(2) 5V/37A(2) 12V/15.4A 15V/12.3A	-5V/10A -5V/10A +24V/3A +24V/3A +12V/5A +15V/4A +5V/10A +12V/8A +24V/4A -12V/6A -15V/5A +24V/4A	+12V/2A +15V/2A +12V/2A	-12V/2A -15V/2A -12V/2A -12V/2A -15V/2A -12V/3A
REL-185-4004 REL-185-4005 REL-185-4005 REL-185-4007 REL-185-3001 REL-185-2001 REL-185-2002 REL-185-2002 REL-185-2004 REL-185-2005 REL-185-2006 REL-185-2007 REL-185-1001 REL-185-1002 REL-185-1004 REL-185-1005 REL-185-1005 REL-185-1006	+5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +15V/8A +15V/6A +15V/6A +35V/35A 2.5V/37A(2) 3.3V/37A(2) 5V/37A(2) 12V/15.4A 15V/12.3A 24V/7.7A	-5V/10A -5V/10A +24V/3A +24V/3A +12V/5A +15V/4A +5V/10A +12V/8A +24V/4A -12V/6A -15V/5A +24V/4A	+12V/2A +15V/2A +12V/2A	-12V/2A -15V/2A -12V/2A -12V/2A -15V/2A -12V/3A
REL-185-4004 REL-185-4005 REL-185-4007 REL-185-3002 REL-185-3002 REL-185-2001 REL-185-2003 REL-185-2003 REL-185-2005 REL-185-2006 REL-185-2007 REL-185-1001 REL-185-1002 REL-185-1004 REL-185-1005 REL-185-1006 REL-185-1006 REL-185-1007	+5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +12V/10A +15V/6A +15V/6A +35V/35A 2.5V/37A(2) 3.3V/37A(2) 5V/37A(2) 12V/15.4A 15V/12.3A 24V/7.7A 28V/6.6A	-5V/10A -5V/10A +24V/3A +24V/3A +12V/5A +15V/4A +5V/10A +12V/8A +24V/4A -12V/6A -15V/5A +24V/4A	+12V/2A +15V/2A +12V/2A	-12V/2A -15V/2A -12V/2A -12V/2A -15V/2A -12V/3A
REL-185-4004 REL-185-4005 REL-185-4007 REL-185-3001 REL-185-3002 REL-185-2001 REL-185-2003 REL-185-2004 REL-185-2004 REL-185-2006 REL-185-2007 REL-185-1001 REL-185-1002 REL-185-1003 REL-185-1004 REL-185-1006 REL-185-1007 REL-185-1007 REL-185-1007 REL-185-1008	+5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +12V/10A +15V/6A +15V/6A +15V/6A +15V/6A +35V/35A 2.5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/3	-5V/10A -5V/10A +24V/3A +24V/3A +12V/5A +15V/4A +5V/10A +12V/8A +24V/4A -12V/6A -15V/5A +24V/4A	+12V/2A +15V/2A +12V/2A	-12V/2A -15V/2A -12V/2A -12V/2A -15V/2A -12V/3A
REL-185-4004 REL-185-4005 REL-185-4007 REL-185-3002 REL-185-3002 REL-185-2001 REL-185-2003 REL-185-2003 REL-185-2005 REL-185-2006 REL-185-2007 REL-185-1001 REL-185-1002 REL-185-1004 REL-185-1005 REL-185-1006 REL-185-1006 REL-185-1007	+5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +12V/10A +15V/6A +15V/6A +35V/35A 2.5V/37A(2) 3.3V/37A(2) 5V/37A(2) 12V/15.4A 15V/12.3A 24V/7.7A 28V/6.6A	-5V/10A -5V/10A +24V/3A +24V/3A +12V/5A +15V/4A +5V/10A +12V/8A +24V/4A -12V/6A -15V/5A +24V/4A	+12V/2A +15V/2A +12V/2A	-12V/2A -15V/2A -12V/2A -12V/2A -15V/2A -12V/3A
REL-185-4004 REL-185-4005 REL-185-4007 REL-185-3001 REL-185-3002 REL-185-2001 REL-185-2003 REL-185-2004 REL-185-2004 REL-185-2006 REL-185-2006 REL-185-1000 REL-185-1003 REL-185-1004 REL-185-1006 REL-185-1007 REL-185-1007 REL-185-1007 REL-185-1008	+5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +5V/20A(1) +12V/10A +15V/6A +15V/6A +15V/6A +35V/35A 2.5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V/37A(2) 5V	-5V/10A -5V/10A +24V/3A +24V/3A +12V/5A +15V/4A +5V/10A +12V/8A +24V/4A -12V/6A -15V/5A +24V/4A	+12V/2A +15V/2A +12V/2A	-12V/2A -15V/2A -12V/2A -12V/2A -15V/2A -12V/3A

OUTPUT SPECIFICAT Total Output Power at 50°C	135W	Convectio	n Cooled
	185W	300 LFM F	
Output Voltage Centering	Output 1:	± 0.5%	(All outputs at 50% load)
Sarpar voltage Centenny	Output 1: Output 2:	± 0.5% ± 5.0%	
	Output 2: Output 3:	± 5.0% ± 5.0%	
Output Maltana Adiust Danas	Output 4:	± 5.0%	
Output Voltage Adjust Range	Output 1:	95 - 105%	
_oad Regulation	Output 1:	0.5%	(10-100% load change)
	Output 2:	5.0%	(10-100% load change)
	(4001,4,5, 2001)	10.0%	(20-100% load change)
	(4002,4003)	15.0%	(20-100% load change)
	Output 3: Output 4:	5.0%	(10-100% load change) (10-100% load change)
Source Degulation		5.0% 0.5%	(10-100% load change)
Source Regulation	Outputs 1 – 4:		
Cross Regulation	Outputs 2 – 4:	6.0%	
Dutput Noise	Outputs 1 – 4:	1.0%	
Turn on Overshoot	None		
Transient Response	Outputs 1 – 4		
Voltage Deviation	5.0%		
Recovery Time	500µS		
Load Change	50% to 100%	1100/ +- 1	E00/
Output Overvoltage Protection	Output 1:	110% to 1	
Output Overpower Protection			on/off, auto recovery
Hold Up Time	16 mS min., Full		Input
Start Up Time	5 Seconds, 120V	Input	
INPUT SPECIFICATIO			
Source Voltage	85 – 264 Volts A	5	
Frequency Range	47 – 63 Hz		
Peak Inrush Current	40A		
Efficiency			0V, varies by model
Power Factor	0.95 (Full Power,		
ENVIRONMENTAL SP	ECIFICATION	NS	
Ambient Operating	0° C to + 70° C		
	Derating: See Power Rating Chart		
	Derating: See Po	wer Rating	Chart
Temperature Range			Chart
Temperature Range Ambient Storage Temp. Range	- 40° C to + 85° (3	
Temperature Range Ambient Storage Temp. Range Temperature Coefficient	- 40° C to + 85° (Outputs 1 – 4:		
Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA	- 40° C to + 85° (Outputs 1 – 4:	3	
Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Means of Protection	- 40° C to + 85° (Outputs 1 – 4:	0.02%	6/°C
Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Means of Protection Primary to Secondary	- 40° C to + 85° (Outputs 1 – 4: TIONS 2MOPP (Means (C 0.02% of Patient P	5/°C
Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Means of Protection Primary to Secondary Primary to Ground	- 40° C to + 85° (Outputs 1 – 4: TIONS 2MOPP (Means (1MOOP (Means	0.02% 0.02% of Patient P of Operator	5/°C rotection) Protection)
Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENIERAL SPECIFICA Means of Protection Primary to Secondary Primary to Ground Secondary to Ground	- 40° C to + 85° (Outputs 1 – 4: TIONS 2MOPP (Means (1MOOP (Means	0.02% 0.02% of Patient P of Operator	5/°C
Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(17)	- 40° C to + 85° (Outputs 1 – 4: TIONS 2MOPP (Means (1MOOP (Means Operation Insulat	C 0.02% of Patient P of Operator ion(Consult	5/°C rotection) Protection) factory for 1MOOP or 1MOPF
Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(n) Reinforced Insulation	- 40° C to + 85° C Outputs 1 – 4: TIONS 2MOPP (Means 0 1MOOP (Means Operation Insulat 5656 VDC, Prima	C 0.02% of Patient P of Operator ion(Consult	5/°C rotection) Protection) factory for 1MOOP or 1MOPP ndary, 1 Sec.
Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Weans of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(17) Reinforced Insulation Basic Insulation	- 40° C to + 85° C Outputs 1 – 4: TIONS 2MOPP (Means 1MOOP (Means Operation Insulat 5656 VDC, Prima 2545 VDC, Prima	C 0.02% of Patient P of Operator ion(Consult ary to Secor ary to Secor	5/°C rotection) factory for 1MOOP or 1MOPP ndary, 1 Sec. nd, 1 Sec.
Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Weans of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(17) Reinforced Insulation Basic Insulation Operational Insulation	- 40° C to + 85° C Outputs 1 – 4: TIONS 2MOPP (Means 0 1MOOP (Means Operation Insulat 5656 VDC, Prima	C 0.02% of Patient P of Operator ion(Consult ary to Secor ary to Secor	5/°C rotection) factory for 1MOOP or 1MOPP ndary, 1 Sec. nd, 1 Sec.
Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Weans of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(17) Reinforced Insulation Basic Insulation Operational Insulation Leakage Current	- 40° C to + 85° (Outputs 1 – 4: TIONS 2MOPP (Means 6 1MOOP (Means Operation Insulat 5656 VDC, Prima 2545 VDC, Prima 707 VDC, Second	0.02% of Patient P of Operator ion(Consult ary to Secor ary to Grour dary to Grou	5/°C rotection) factory for 1MOOP or 1MOPP ndary, 1 Sec. nd, 1 Sec.
Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Weans of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(17) Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage	- 40° C to + 85° (Outputs 1 – 4: TIONS 2MOPP (Means 6 1MOOP (Means Operation Insulat 5656 VDC, Prima 2545 VDC, Prima 707 VDC, Secon <300uA NC, <10	C 0.02% of Patient P of Operator ion(Consult ary to Secor ary to Grour dary to Grour 00uA SFC	5/°C rotection) factory for 1MOOP or 1MOPP ndary, 1 Sec. nd, 1 Sec.
Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Weans of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(17) Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current	- 40° C to + 85° (Outputs 1 – 4: TIONS 2MOPP (Means 0 1MOOP (Means 0 0peration Insulat 5656 VDC, Prima 2545 VDC, Prima 707 VDC, Secon <300uA NC, <10 <100uA NC, <50	C 0.02% of Patient P of Operator ion(Consult any to Secor rry to Secor rry to Grour dary to Grou dary to Grou 00uA SFC 00uA SFC	5/°C Protection) factory for 1MOOP or 1MOPP ndary, 1 Sec. Id, 1 Sec. und, 1 Sec.
Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Weans of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(17) Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current	- 40° C to + 85° (Outputs 1 – 4: TIONS 2MOPP (Means (1MOOP (Means Operation Insulat 5656 VDC, Prima 2545 VDC, Prima 707 VDC, Secon <300uA NC, <10 <100uA NC, <50 Logic low with ing	C 0.02% of Patient P of Operator ion(Consult ary to Secor rry to Grour dary to Grour dary to Grou OuA SFC DuA SFC DuA SFC Dut power fa	5/°C rotection) factory for 1MOOP or 1MOPP ndary, 1 Sec. nd, 1 Sec. und, 1 Sec. sillure 10 mS
Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Weans of Protection Primary to Ground Secondary to Ground Dielectric Strength(17) Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal	- 40° C to + 85° (Outputs 1 – 4: TIONS 2MOPP (Means (1MOOP (Means Operation Insulat 5656 VDC, Prima 2545 VDC, Prima 707 VDC, Secon <300uA NC, <10 <100uA NC, <50 Logic low with in minimum prior to	C 0.02% of Patient P of Operator ion(Consult ary to Secor rry to Grour dary to Grour dary to Grour dary to Grour dary to Grour dary to Grour to Grour to SFC DuA SFC Duay SFC Dutp t1 th	5/°C rotection) Protection) factory for 1MOOP or 1MOPP ndary, 1 Sec. nd, 1 Sec. und, 1 Sec. illure 10 mS ropping 1%
Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Weans of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(17) Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote On/Off (optional)	- 40° C to + 85° C Outputs 1 – 4: TIONS 2MOPP (Means of 1MOOP (Means Operation Insulat 5656 VDC, Prima 2545 VDC, Prima 707 VDC, Secono <300uA NC, <10 <100uA NC, <50 Logic low with inp minimum prior to Contact closure s	C 0.02% of Patient P of Operator ion(Consult ary to Secor ry to Grour dary to Grour dary to Grour dary to Grour dary to Grour dary to Grour couta SFC Dua SFC Dua SFC Output 1 di shuts off all	5/°C rotection) factory for 1MOOP or 1MOPP ndary, 1 Sec. nd, 1 Sec. und, 1 Sec. illure 10 mS ropping 1% outputs
Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Weans of Protection Primary to Ground Secondary to Ground Dielectric Strength(17) Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote On/Off (optional) Remote Sense	 - 40° C to + 85° C Outputs 1 – 4: TIONS 2MOPP (Means (1MOOP (Means Operation Insulat 5656 VDC, Prima 2545 VDC, Prima 707 VDC, Second <300uA NC, <10 <100uA NC, <500 Logic low with inpinimum prior to Contact closure s 250mV compens 	C 0.02% of Patient P of Operator ion(Consult ary to Secor rry to Grour dary to Group dary to Group d	5/°C rotection) Protection) factory for 1MOOP or 1MOPF ndary, 1 Sec. nd, 1 Sec. und, 1 Sec.
Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Weans of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(17) Reinforced Insulation Dasic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal Remote On/Off (optional) Remote Sense Wean-Time Between Failures	 - 40° C to + 85° C Outputs 1 – 4: TIONS 2MOPP (Means c 1MOOP (Means c Operation Insulat 5656 VDC, Prima 2545 VDC, Prima 707 VDC, Second <300uA NC, <10 <100uA NC, <50 Logic low with inp minimum prior to Contact closure s 250mV compens 100,000 Hours m 	C 0.02% of Patient P of Operator ion(Consult ary to Secor rry to Grour dary to Group dary to Group d	5/°C rotection) Protection) factory for 1MOOP or 1MOPF ndary, 1 Sec. nd, 1 Sec. und, 1 Sec. Sec. und, 1 Sec. Understand Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Se
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Refer to Applications Information for complete outputs. All specifications are maximum at 25° C, 185W unless otherwise stated, may vary by model and are subject to change without notice.

Specify optional chassis and cover or remote on/off when ordering.

REL-185 SERIES MECHANICAL SPECIFICATIONS

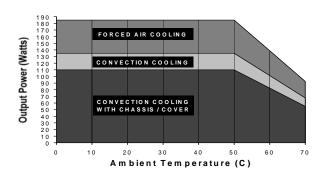


1 – Optimum 2 – Good 3 – Fair

APPLICATIONS INFORMATION

- 1. Rated 15A maximum with convection cooling.
- 2. Rated 27A maximum with convection cooling.
- 3. Total power must not exceed 135 watts with convection cooling on open frame models except where noted.
- Total power must not exceed 185 watts with 300 LFM forced air cooling on open frame models.
- 5. Total power must not exceed 110 watts with convection cooling and chassis/cover option.
- Total power must not exceed 185 watts with 300 LFM forced air cooling and chassis/cover option.
- 7. Total current from Outputs 3 & 4 must not exceed 3 amps with convection cooling.
- 8. Total current from Outputs 1 & 2 must not exceed 20 amps with convection cooling.
- 9. Semiconductor case temperatures must not exceed 110°C.
- 10. Each output can deliver its rated current but total output power must not exceed maximum power as determined by the cooling method stated above.
- 11. Sufficient area must be provided around convection cooled power supplies to allow natural movement of air to develop.
- 12. 300 linear feet per minute of airflow must be maintained one inch above any point of the heatsink in the direction shown when forced air cooling is required.
- 13. This product is intended for use as a professionally installed component within information technology and medical equipment.
- A minimum load of 10% is required on output one to ensure proper regulation of remaining outputs.
- 15. Remote sense terminals may be used to compensate for cable losses up to 250mV. The use of a twisted pair is recommended as well as a decoupling capacitor (0.1 10μ F) and a capacitor of 100μ F/amp connected across the load side.
- Peak to peak output ripple and noise is measured directly at the output terminals of the power supply, without the use of the probe ground lead or retractable tip, 20 MHz bandwidth.
- 17. 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 60601-11 st 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.
- 19. Maximum screw penetration into bottom chassis mounting holes is .100 inches.
- 20. Maximum screw penetration into side chassis mounting holes is .250 inches.
- 21. To meet emissions specifications, all four mounting hole ground pads must be electrically connected to a common metal chassis. Chassis/cover option recommended.
- 22. This product includes only one fuse in the input circuit. In consideration of Clause 8.11.5 of IEC 60601-1:2005, a second fuse may be required in the end product.

MAXIMUM OUTPUT POWER VS. AMBIENT TEMPERATURE



CONNECTOR SPECIFICATIONS

P1	AC Input	.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	6-32 screw down terminal mates with #6 ring tongue
	(Single)	terminal. (10 in-lb max)
P2	DC Output	.156 friction lock header mates with Molex 09-50-3161 or
	(Multiple)	equivalent crimp terminal housing with Molex 2478 or equivalent
		crimp terminal.
G	Ground	.187 quick disconnect terminal.
P3	Option/Sense	.100 friction lock header mates with Molex 50-57-9008 or
	(Single)	equivalent crimp terminal housing with Molex type 71851 or
	-	equivalent crimp terminal.
P3	Option/Sense (Multiple)	.100 breakaway header mates with Molex 22-55-2081 or equivalent crimp terminal housing with Molex type 71851 or equivalent crimp terminal.