Features

Regulated Converters

- 48 Watt Open Frame AC-DC Class II Power Supply
- Universal Input Voltage Range
- compact 4" x 2" size
- **3kVAC Isolation**
- OCP, OVP, SCP
- Standby Power ErP conform (<0.5W)

Description

The RAC48/OF series offers compact AC/DC open frame power supplies with universal AC input (90-265VAC) and fully protected DC outputs which are trimmable to compensate for voltage drops on the output connections. The power supplies are CB, UL, and CE certified and ErP conform. Uses include industry controls, test and measurement systems and energy efficient products.

Selection Guide						
Part Number	Input Range	Output Voltage	Output Current Range	Voltage Adj. Range *	Output Power	Efficiency typ.
	(VAC)	(VDC)	(A)	(V)	(W)	0/0
RAC48-05S/0F	90-264	5	0-8	4.5-5.5	40	79
RAC48-12S/0F	90-264	12	0-4	10-13	48	82
RAC48-15S/0F	90-264	15	0-3.2	13.5-18	48	84
RAC48-24S/0F	90-264	24	0-2	22-27	48	85

^{*} refer to "Package Style and Pinning"

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pecifications (typical at 25°C and 230	VAC)	
Input Voltage Range		90-265VAC or 127-370VDC
Rated Power		48 Watts max.
Input Frequency Range (for AC Input)		47-63Hz
Input Current (full load)	115VAC	1.5A max.
	230VAC	1A max.
Inrush Current (Cold Start)	115VAC	30A typ.
	230VAC	60A typ.
No Load Power Consumption		<0.5W
Start-up Time (at cold first start)	115VAC/230VAC	500ms
Rise Time	Full Load	<30ms
Hold Time	115VAC, Full Load	13ms typ.
	230VAC, Full Load	60ms typ.
Leakage Current	240VAC	<0.75mA
Output Voltage Accuracy	24VDC	±1%
(includes Line-, Load-regulation and Set-up Tolera	unce) 05, 12, 15VDC	±2%
Output Ripple and Noise (20MHz limited)	5VDC	80mVp-p max.
	12VDC	120mVp-p max.
	15VDC	150mVp-p max.
(measured with 0.1µF & 47µF parallel capacitor)	24VDC	200mVp-p max.
Isolation Voltage	I/P to O/P	3kVAC / 1 minute
	I/P to FG	1.5kVAC / 1 minute
	O/P to FG	0.5kVAC / 1 minute
Isolation Resistance	500VDC	100 MΩ
Short Circuit Protection		Hiccup Mode, Automatic Restart
Over Voltage Protection	5VDC	5.75-6.5VDC
	12VDC	13.5-15VDC
	15VDC	16.9-18.75VDC
Latch Mode, re-power on to recover	24VDC	27-30VDC
Over Voltage Category		TBD
Over Load Protection 115	5-150% rated output powe	r, Hiccup Mode, Automatic Restart
		continued on next page

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AC/DC-Converter with 3 year Warranty



48 Watt **Single Output** Open Frame







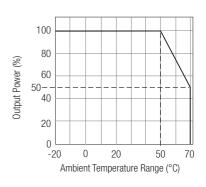


CB-Report UL-60950-1 (Pending) EN-60950-1 (Pending) **EN-55022** Certfied **EN-55024** Certified

RAC48/OF

Derating Graph

(Ambient Temperature)



Refer to Application Notes

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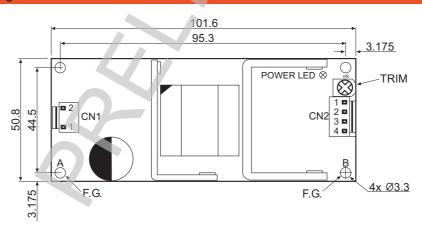
AC/DC-Converter

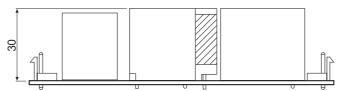
RAC48-xx/OF Series

Specifications (typical at 25°C and 23	BOVAC)			
Operating Temperature Range	Full Load withou	ut derating	-20°C to +50°C	
	with derating	with derating		
Storage Temperature Range			-40°C to +80°C	
Operation Humidity	non-condensing]	20% - 90% RH	
Storage Humidity			10% - 90% RH	
Vibration			10-500Hz, 2G, 10 Min. along X, Y and Z	
Weight			145g	
Dimensions (LxWxH)		A	101.6 x 50.8 x 30mm	
Package Quantity			30pcs / carton	
Package Dimensions Carton (LxWxH)			325 x 270 x 220mm	
MTBF	(using MIL-HDBK-217F, 25°C)		>450 x 10 ³ hours	
Certifications:				
General Safety			UL-60950-1 2nd	
			EN-60950-1 2nd	
EMC	Conducted and Radiated	Report: HA080035-SCCE	EN55022, Class B	
	Immunity	Report: HA080035-SCCE	EN55024	
		Report: HA080035-SBFD	FCC, Part 15, Class B	
	Harmonics	Report: HA080035-SCCE	EN61000-3-2	
			EN61000-3-3	
			EN61000-4-2, 3, 4, 5, 6, 8, 11, Critertia A	
	Emission	Report: HA080035-SCCE	EN61000-6-3	
ErP	complies to European Directive for Energy Related Products 2004/125/EC			
Notes				

Package Style and Pinning

Note1: Mounting holes A, B must be grounded for EMI (Filter Ground).





AC Input Connector (CN1): WST M3-139606S or equivalent				
Pin#	Terminal	Mating Housing		
1 AC/N	WST 139606PS-2	WST P4-139606PS-2		
2 AC/L	or equivalent	or equivalent		

DC Output Connector (CN2): WST M4-139606 or equivalent			
Pin#	Terminal	Mating Housing	
1,2 V+	WST 139606PS-2	WST P4-139606PS-2	
2, 3 V-	or equivalent	or equivalent	

The product information and specifications are subject to change without prior notice. All products are designed for non-safety critical commercial and industrial applications. The Buyer agrees to implement safeguards that anticipate the consequences of any failures that might cause harm, loss of life and/or damage property.