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.

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

* refer to "Package Style and Pinning"

Specifications (typical at 25°C and 230VAC)

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 Tolerance)	05, 12, 15VDC	±2%	
Output Ripple and Noise (20MHz limited)	5VDC	80mVp-p max.	
	12VDC	120mVp-p max.	
	15VDC	150mVp-p max.	
(measured with 0.1 μF & 47 μF 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 Load Protection 115-15	15-150% rated output power, Hiccup Mode, Automatic Restart		
		continued on next page	

POWERLINE AC/DC-Converter with 3 year Warranty



48 Watt **Open Frame Single Output**

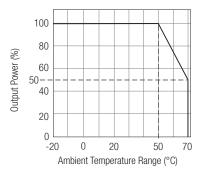


EN-55024 Certified



Derating Graph

(Ambient Temperature)



Refer to Application Notes

POWERLINE

AC/DC-Converter

RAC48-xx/OF Series

Specifications (typical at 25°C and 23	BOVAC)		
Operating Temperature Range	Full Load withou	-20°C to +50°C	
	with derating		-20°C to +70°C
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)			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			

Notes

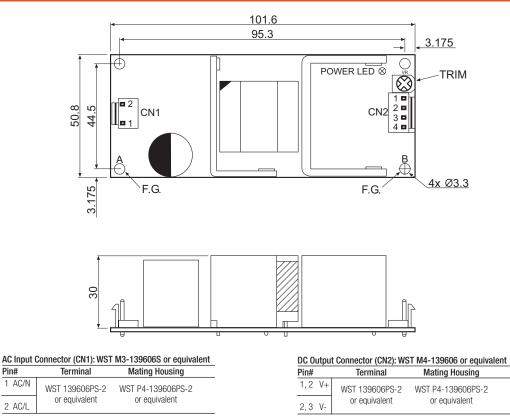
Mounting holes A, B must be grounded for EMI (Filter Ground). Note1:

Package Style and Pinning

Pin#

1 AC/N

2 AC/L



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.