NOT RECOMMENDED FOR NEW DESIGNS LAST TIME BUY: 30™ OCT 2020, 3.3SA, 05SA, 15SA, 24SA, 05DA, 12DA, 15DA

LAST TIME BUY: 30TH OCT 2020, "-E" & "-ST" VERSION

Features

Regulated **Converters**

- AC-DC Power Supply
- 5 Watt PCB Mount Package
- Universal Input Voltage Range
- 3000VAC Isolation
- Low Output Ripple and Noise

90-264VAC or 120-370VDC

- Short Circuit Protected
- UL Approved, CE Marked

Selection Guide

Input Voltage Range

Part Number	Input Range	Output Voltage	Output Current	Efficiency	Max Capacitive	
	(VAC)	(VDC)	(mA)	(%)	Load	
RAC05-12SA	90-264	12	416	70	4000μF	

NRND (Last time buy: 30th Oct 2020)

Part Number	Input Range	Output Voltage	Output Current	Efficiency	Max Capacitive
	(VAC)	(VDC)	(mA)	(%)	Load
RAC05-3.3SA	90-264	3.3	1500	62	40000μF
RAC05-05SA	90-264	5	1000	65	19000µF
RAC05-15SA	90-264	15	333	70	3500µF
RAC05-24SA	90-264	24	200	71	900μF
RAC05-05DA	90-264	±5	±500	70	±9500μF
RAC05-12DA	90-264	±12	±200	67	±1400µF
RAC05-15DA	90-264	±15	±160	67	±950μF

^{*}add suffix "-E" for extended temperature range, e.g. RAC05-05SA-E

Specifications (typical at 25°C and after warm up time unless otherwise specified)

input voltage Range		90-264VAC 01 120-370VDC
Rated Power		5 Watts max
Input Frequency Range (for AC Input)		47-440Hz
Input Current (full load)	115VAC/230VAC	120mA /70mA max.
No Load Power Consumption	115VAC/230VAC	1.18W max.
Inrush Current (<2ms)	115VAC	10A max. (-E = 23A max.)
	230VAC	20A max. (-E = 46A max.)
Leakage Current		0.75mA max
Output Voltage Accuracy (full load)		±2%
Line Voltage Regulation (low line, high line a	at full load)	±0.3% typ
Load Voltage Regulation (5% to 100% full	load)	±0.5% typ
Output Ripple and Noise (20MHz limited)	Ripple	<0.2% Vout + 40mVp-p max
	Noise	0.5% Vout + 50mVp-p max
Operating Frequency		100kHz typ
Efficiency at full Load		see table
RMS Isolation Voltage (input to output)		3kVAC / 1 minute
Temperature Coefficient		±0.02%/°C typ
Isolation Resistance		100 MΩ max
Short Circuit Protection		Hiccup, Automatic Restart
Operating Temperature Range	Standard	-25°C to +70°C
(free air convection, with derating)	Suffix -E	-40°C to +70°C
Storage Temperature Range		-40°C to +85°C
Humidity		95% RH max
Case Material		Epoxy with Fibreglass (UL94V-0)
Package Weight		80g
Packing Quantity		5 pcs (-ST Version: 1 pc)
EMC		EN 55022 ClassB / EN 50082-1
MTBF (+25°C)	using MIL-HDBK-217F	300 x 10 ³ hours

POWERLINE

AC/DC-Converter with 3 year Warranty



5 Watt Single/Dual **Output**



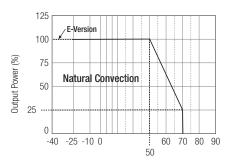


UL-60950-1 Certified

RACO5-A

Derating-Graph

(Ambient Temperature)



Ambient Temperature Range (°C)

Refer to Application Notes

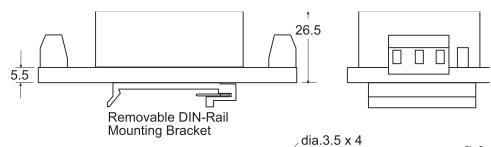
^{*}add suffix "-ST" for screw terminal module e.g. RAC05-05SA-ST, RAC05-05DA-E-ST

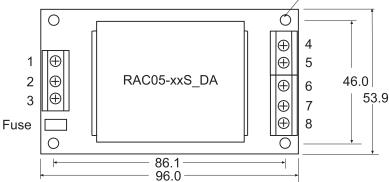
POWERLINE

AC/DC-Converter

RACO5-S_DA Series

Screw Terminal Module Option (suffix -ST)

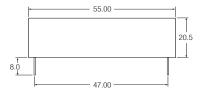


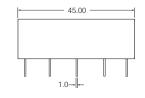


Pin Connections-			
Pin #	Single Out	Dual Out	
1	FG	FG	
2	VAC in (N)	VAC in (N)	
3	VAC in (L)	VAC in (L)	
4	NC	NC	
5	-VDC out	-VDC out	
6	NC	Com	
7	+VDC out	+VDC out	
8	NC	NC	

NC = No Connection

Standard Package Style and Pinning





1		L				
17.5				+	60-	1
						10.0
†	- ∘2	N	Bottom View	Com	5 • –	+
 17.5						10.0
17.3				-	4	
<u> </u>	- • 1	FG				

Pin #	Single Out	Dual Out	
1	FG	FG	
2	VAC in (N)	VAC in (N)	
3	VAC in (L)	VAC in (L)	
4	-VDC out	-VDC out	
5	No Pin	Com	
6	+VDC out	+VDC out	

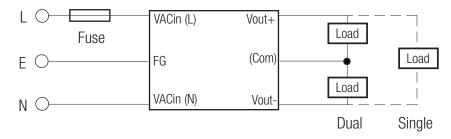
 $XX.X \pm 0.5 \text{ mm}$ $XX.XX \pm 0.25 \text{ mm}$

Pin Connections-

Standard Application Circuit

Suggested fuse rating

1A Slow Blow



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