Features

Regulated Converters

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

POWERLINE

AC/DC-Converter

RAC60-SA Series

Selection Guide

Part Number	Input Range (VAC)	Output Voltage (VDC)	Output Current (mA)	Output Ripple & Noise (mVp-p)	Efficiency %
RAC60-05SA	90-264	5	10000	100	76
RAC60-12SA	90-264	12	5000	150	80
RAC60-15SA	90-264	15	4000	200	80
RAC60-24SA	90-264	24	2500	300	80

60 Watt Single Output



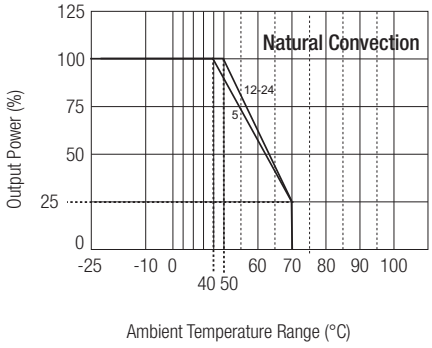
Specifications

(typical at 25°C, nominal input voltage and after warm up time unless otherwise specified)

Input Voltage Range		90-264VAC or 120-370VDC
Rated Power		60 Watts max.
Input Frequency Range (for AC Input)		47-63Hz
Input Current (full load)		2000mA max. (115VAC) / 1000mA max. (230VAC)
Inrush Current (<2mS)		20A max. (115VAC) / 40A max. (230VAC)
Leakage Current		3.5mA max.
Output Voltage Accuracy (Full load)		±2%
Line Voltage Regulation (LL to HL at full load)	Single	±1% typ.
Load Voltage Regulation (5% to 100% full load)	Single	±1% typ.
Minimum Load		1%
Output Ripple (20MHz limited)		see table
Output Trim		±10%
Operating Frequency		133kHz typ.
Efficiency at Full Load		see table
Isolation Voltage (input to output)		3.000VAC min.
Temperature Coefficient		±0.02%/°C typ.
Isolation Resistance		100 MOhm max.
Short Circuit Protection		Continuous, Hiccup, Automatic Restart
Operating Temperature Range	free air convection, with derating	-25°C to +70°C
Storage Temperature Range		-40°C to +85°C
Humidity		95% RH max.
Case Material		Plastic Resin with Fibreglass (UL94V-0)
Package Weight		420g
MTBF (using MIL-HDBK-217F, 25°C)		>130 x 10^3 hours

Derating Graph

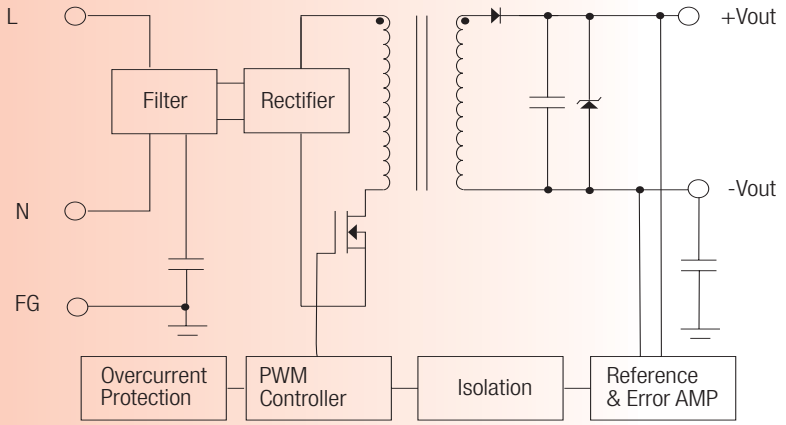
(Ambient Temperature)



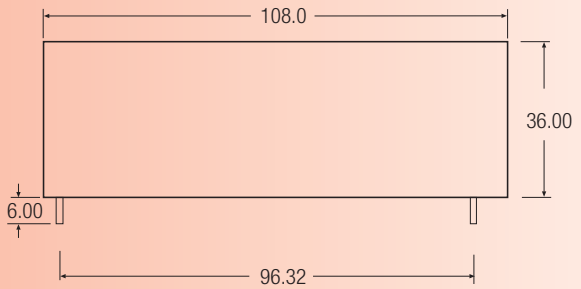
RAC60-S_D_TA Series

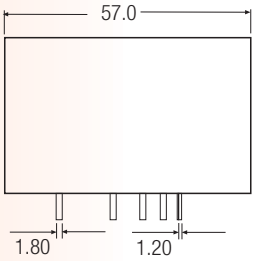
Simplified Schematics

Single

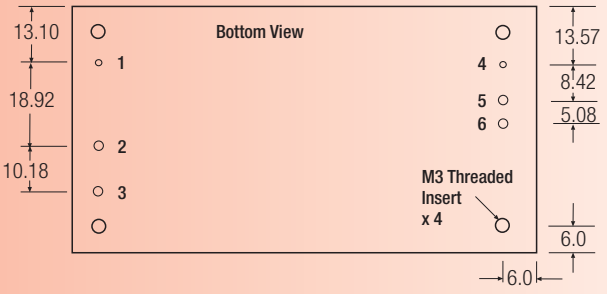


Package Style and Pinning





3rd angle projection



Pin Connections- Single Output

Pin #	Dia.(mm)	Function
1	1.2	FG
2	1.8	VAC in (N)
3	1.8	VAC in (L)
4	1.2	Trim
5	1.8	-VDC Out
6	1.8	+VDC Out

XX.X ± 0.5 mm
XX.XX ± 0.25 mm