Features

Regulated Converters

- AC-DC Power Supply
- 60 Watt PCB Mount Package
- Universal Input Voltage Range
- 4kVAC Isolation RMS
- Low Output Ripple and Noise
- Short Circuit Protected
- Output Trim
- UL Certified, CE Marked

Description

Compact high power switching power module for PCB mounting. This switching converter has an universal AC or DC input voltage range with single high current outputs which are trimmable to compensate for any voltage drops on the output connections. Threaded inserts ensure mechanical fixing.

Selection Guide)					
Part Number	Input Range (VAC)	Output Voltage (VDC)	Output Current (mA)	Output Power (W)	Efficiency at 230V %	Max Capacitive Load
RAC60-05SB	85-265	5	10000	50	82	80000µF
RAC60-09SB	85-265	9	6600	60	84	28000µF
RAC60-12SB	85-265	12	5000	60	86	14000µF
RAC60-15SB	85-265	15	4000	60	86	12000µF
RAC60-24SB	85-265	24	2500	60	86	4000µF
RAC60-48SB	85-265	48	1250	60	86	950µF

Specifications (typical at 25°C and after w	varm up time unless otherwise	specified)
Input Voltage Range	85-26	5VAC or 100-370VDC
Rated Power		60 Watts max.
Input Frequency Range (for AC Input)		47-63Hz
Input Current (full load)	115VAC/230VAC	2A/ 1A max.
No Load Power Consumption	115VAC/230VAC	520mW max.
Inrush Current (<2mS)	115VAC/230VAC	30A/ 50A max.
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 Noise (20MHz limited)	0.5%	6Vout + 50mVp-p max
Output Ripple (20MHz limited)	<0.29	6Vout + 40mVp-p max
Output Trim		±10%
Operating Frequency		100kHz typ.
Efficiency at Full Load		see table
RMS Isolation Voltage (input to output)		4kVAC / 1 minute
Temperature Coefficient		±0.02%/°C typ.
Isolation Resistance		100 M0hm max.
Short Circuit Protection	Continuous, Hic	cup, Automatic Restart
Over Voltage Category		OVC II
Operating Temperature Range	free air convection, with derating	-40°C to +70°C
Storage Temperature Range		-40°C to +85°C
Humidity		95% RH max.
Case Material	Plastic Resin wit	h Fibreglass (UL94V-0)
Package Weight		310g
Packing Quantity		1 pc
EMC EN 55011 Class B	/ EN 55022 Class B / EN 60601	-1-2/ EN61000-3-2 -3
	EN 55024 / EN61000-4	-2 -3 -4 -5 -6 - 8 -11

MTBF (using MIL-HDBK-217F, 25°C)

POWERLINE

AC/DC-Converter with 3 year Warranty



60 Watt Single Output





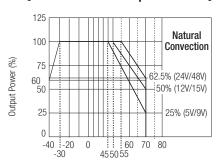


UL-60950-1 Certified

RAC60-B

Derating-Graph

(Ambient Temperature)

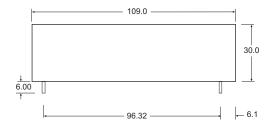


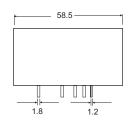
Ambient Temperature Range (°C)

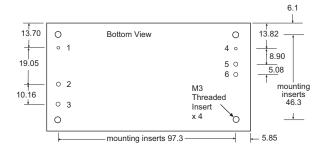
Refer to Application Notes

>130 x 103 hours

Package Style and Pinning



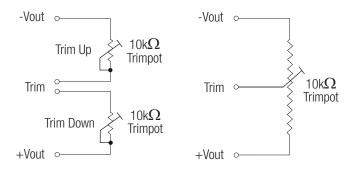




Pin Connections – Single Output				
Pin#	Dia.(mm)	Function		
1	1.2	FG		
2	1.8	VAC in (L)		
3	1.8	VAC in (N)		
4	1.2	Trim		
5	1.8	-VDC Out		
6	1.8	+VDC Out		

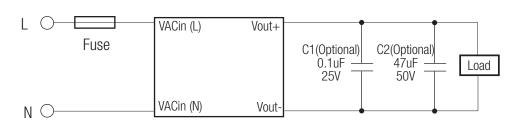
Tolerance ± 0.5 mm

Output Trim Adjustment



Standard Application Circuit

Suggested fuse rating **4A Slow Blow**



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