Features

Regulated Converters

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

Selection Guide

Part Number	Input Range (VAC)	Output Voltage (VDC)	Output Current (mA)	Efficiency (%)
RAC15-05SA	90-264	5	3000	70
RAC15-12SA	90-264	12	1250	73
RAC15-15SA	90-264	15	1000	73
RAC15-24SA	90-264	24	625	77
RAC15-05DA	90-264	±5	±1500	71
RAC15-12DA	90-264	±12	±650	76
RAC15-15DA	90-264	±15	±500	65
RAC15-0512TA	90-264	5/±12	2000/±200	68
RAC15-0515TA	90-264	5/±15	2000/±150	68

* add suffix "-DIN for DIN Rail mounting module (see seperate datasheet)

Description

Compact switching power module for PCB or DIN-rail mounting with cUL, UL Safety Approvals.

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		15 Watts max.
Input Frequency Range (for AC Input)		47-440Hz
Input Current (full load)		280mA max. (115VAC) / 170mA max. (230VAC)
Inrush Current (<2ms)		10A max. (115VAC) / 20A max. (230VAC)
Leakage Current		0.75mA max.
Output Voltage Accuracy (Full load)		±2%
Line Voltage Regul. (low line, high line at full load)	Single	±0.5% typ.
	Dual	±0.5% typ.
	Triple	±1%/±0.5% typ.
Load Voltage Regulation (5% to 100% full load)	Single	±0.5% typ.
	Dual	±3% typ.
	Triple	±2%/±5% typ.
Output Ripple and Noise (20MHz limited)		0.5% Vout + 50mVp-p max.
Operating Frequency		100kHz typ.
Efficiency at Full Load		see table
Isolation Voltage (input to output)		3000VAC min.
Temperature Coefficient		±0.02%/°C typ.
Isolation Resistance		100 MΩ max.
Short Circuit Protection		Continuous, 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		Epoxy with Fibreglass (UL94V-0)
Package Weight		140g
	DIN Rail Module	200g
MTBF (+25°C)	using MIL-HDBK-217F	200 x 10^3 hours

POWERLINE

AC/DC-Converter

RAC15-S_D_TA Series

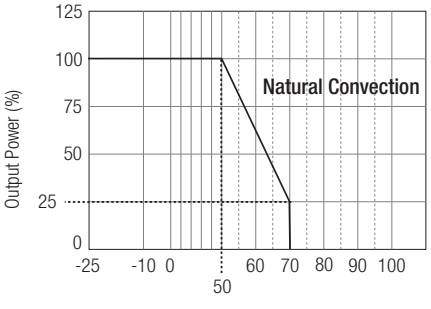
15 Watt Single, Dual & Triple Output



UL-60950 Certified

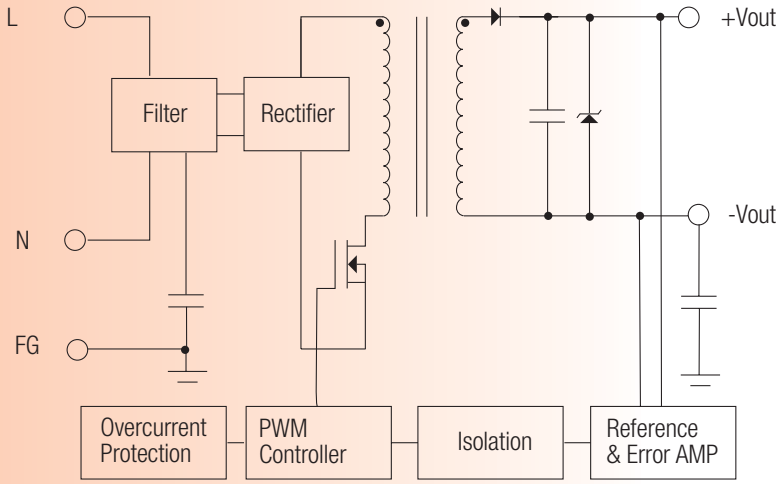
Derating Graph

(Ambient Temperature)

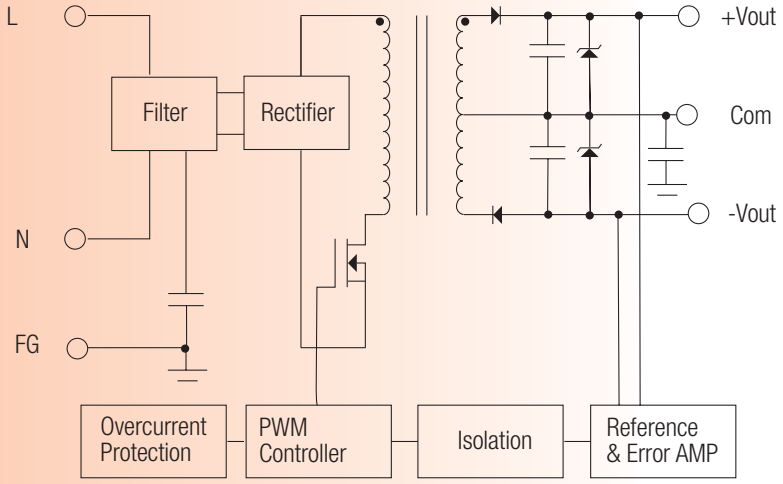


Simplified Schematics

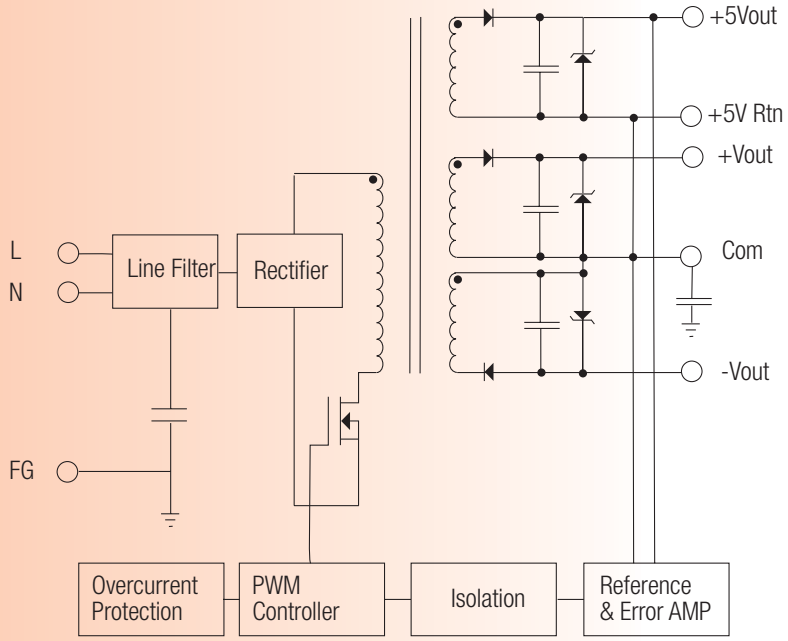
Single



Dual

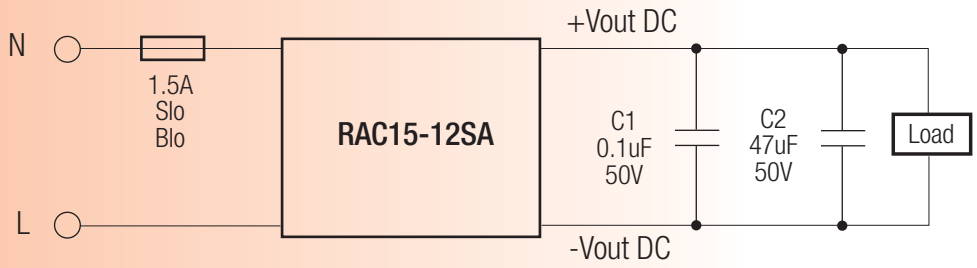


Triple



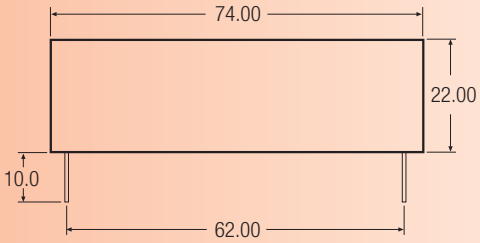
RAC15-S_D_TA Series

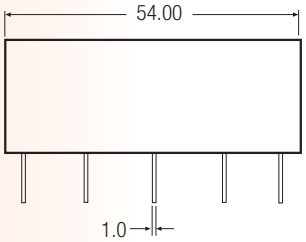
Typical Application

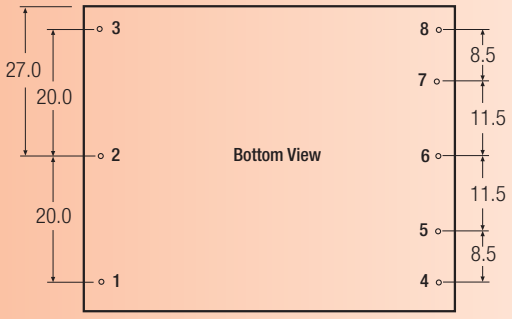


Package Style and Pinning

3rd angle projection







Pin Connections

Pin #	Single Out	Dual Out	Triple Out
1	FG	FG	FG
2	VAC in (N)	VAC in (N)	VAC in (N)
3	VAC in (L)	VAC in (L)	VAC in (L)
4	No Pin	No Pin	-VDC Out
5	-VDC Out	-VDC Out	Com
6	No Pin	Com	+ VDC Out
7	+ VDC Out	+ VDC Out	+ 5V Rtn (Com)
8	No Pin	No Pin	+ 5V Out

XX.X ± 0.5 mm
XX.XX ± 0.25 mm

See DIN Rail Modules for DIN rail mounting option