Features

- Input Voltage Range 90-264V AC
- Univeral AC input/ Full range
- Energy efficiency level VI
- Leakage Current: ＜ 0.25mA
- Withstand voltage : 3KV
- Three Years Warranty

RS PRO Enclosed AC/DC

RS Stock No.:
0813952



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

- This RS Series is a regulated and reliable 20W Enclosed AC/DC Power Supply.
- Designed for use in applications such as system-critical media and control infrastructure.
- This series is supplied with a Pin Connection input connection and supports input voltages of 90~264V AC 50~60Hz.

Electrical Specifications

RS Stock#	Input Voltage	Output Voltage	Output Current	Output Wattage	Efficiency (Typ)	Ripple & Noise (mVp-p)
0813952	90-264VAC	12 V	1.3 A	24 W	79 %	150

Input Specifications

Input Voltage	90~264VAC
Frequency Range	50/60Hz
AC Current	0.2A/115VAC 0.21A/230VAC
Inrush Current	Cold start 45A. at 240VAC/50Hz,full load
Leakage Current	＜0.25mA/240VAC

Output Specifications

Voltage Tolerance	±5.0%
Line Regulation	±3.0%
Load Regulation	±5.0%
Set up & Rise Time, Hold up Time	500ms, 30ms/120ms 230VAC 1000ms, 30ms/25ms 115VAC at full load

Protection Specifications

Overload	Above 105% rated output power
	Protection type: Hiccup Mode recovers automatically after fault condition is removed
Over Voltage	115%-135%Vout
	Protection type: Shut down o/p voltage, re-power on to recover
Over Temperature:	Shut down o/p voltage, re-power on to recover

Environmental

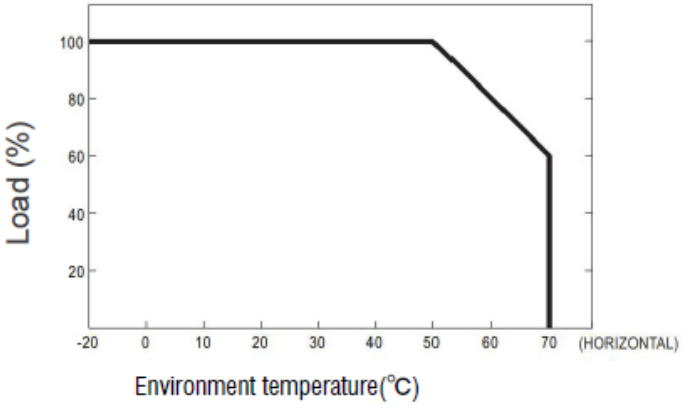
Working TEMP.	-20 ~ +60℃ (Refer to "Derating Curve")
Working Humidity	20 ~ 95% RH non-condensing
Storage TEMP. Humidity	-40℃ ~ 85℃ 10 ~ 95% RH

Safety & EMC

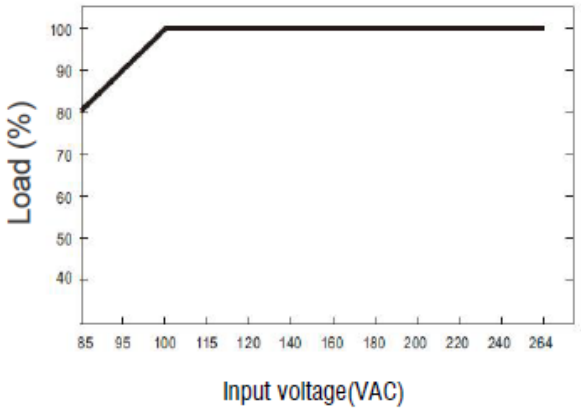
Safety Standards	TUV BS EN/EN62368-1, EAC TP TC 004, BSMI CNS14336-1, AS/NZS 62368.1 approved
Withstand Voltage	I/P-O/P:3KV AC I/P-FG:2KV AC O/P-FG:0.5KV AC
EMC Emission	Compliance to BS EN/EN55032 (CISPR32), BS EN/EN61204-3 Class B, BS EN/EN61000-3-2, -3, EAC TP TC 020, CNS13438 Class B
MTBF	500Khrs min. MIL-HDBK-217F (25℃)
Size	98*58*37mm

Electrical Drawing

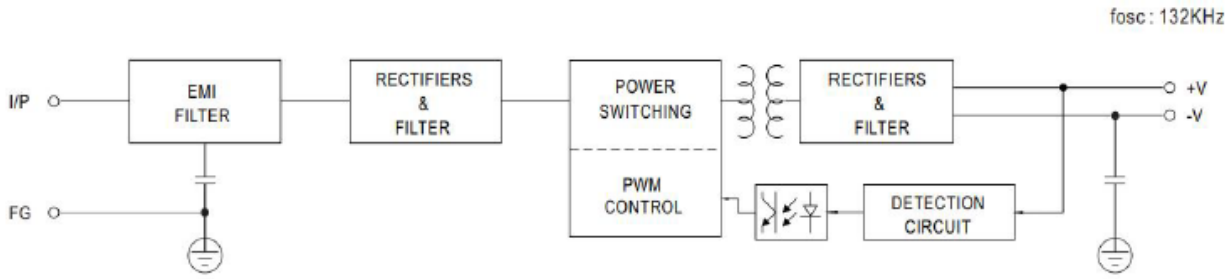
Deduction curve and temperature



Minus output and input voltage curves



Functional Diagram



Note:

1.All parameters NOT specially mentioned are measured at 115/230VAC input, rated load and 25℃of ambient

temperature.

2.Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf

parallel capacitor.

3.Tolerance: includes set up tolerance, line regulation and load regulation.

4.Line regulation is measured from low line to highline at rated load.

5.Load regulation is measured from 0% to 100% rated load.

6.The ambient temperature derating of 5℃/1000m is needed for operating altitude greater than 2000m(6500ft).

7.The power supply is considered a component which will be installed into a final equipment.

All the EMC tests are being executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness.

The final equipment must be re-confirmed that it still meets EMC directives.