

Features

- Universal Input Voltage Range 90~264V AC
- Approved to SAA, FCC, RoHS & REACH
- IEC / EN 62368 Safety Approved
- Single Output 12V DC
- OCP, SCP, OVP

RS PRO 120W External AC/DC Desktop Power Supply

RS Stock No.: 0801788



RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

Product Description

- This 120W adapter is a consistent and reliable external desktop power supply.
- Designed for use in applications such as commercial AV, broadcasting and control panels.
- This series is supplied with an IEC C14 input connection. Certified to SAA, FCC, RoHS & REACH and compliant with IEC / EN 62368.
- Suitable for integration in diverse AV, ITE, and embedded electronic systems.

Model Specifications

RS Stock#	Input Voltage	Output Voltage	Output Current	Output Wattage	Efficiency (Typ)
0801788	90-264Vac	12.0Vdc	10.0A	120.0W	88%

General Specifications

Input Connector	IEC320 C14
Input Plug Type	N/A
Output Connection Type	4 Pin KYCON Equivalent
Number of Outputs	1
Mounting Style	Desktop
MTBF	At least 50,000 hours at 25°C, full load and nominal input condition
Power Indicator	No
Cable Length	1200mm
Medical Approved	No

Electrical Specifications

Input Specifications	
Rated Input Voltage	100 to 240V ac
Full Input Voltage Range	90 – 264V ac
Full Frequency Range	47-63Hz (50-60Hz Nominal)
Efficiency	88%
Input Current (RMS Max.)	2.5Amax @ 100-240Vac input & Full load 100 – 240 Vac
Inrush Current	Will not exceed 80A at 100-240Vac input and Max load for a cold start at 25°C
Leakage Current (max.)	0.25mAmax. at 264Vac / 50Hz

Output Specification	
Output Voltage	12V dc
Output Current	10.0A
Ripple & Noise (max.)	200mVp-p
Line Regulation	±3.0%
Load Regulation	±5.0%
Hold Up Time (Typ.)	100 mS Max.at 115V ac input and output at full load
Transient Response	The output shall not exceed 10% of the nominal output voltage, load fluctuation: from 20% to 80%, R/S: 0.5A/uS, frequency: 100Hz, duration and 8mS at 80%.
Number of Outputs	1
Dielectric Strength (hi-pot)	Primary to Secondary: 4242VDC / 5mAmax / 3 seconds.
Over Voltage Protection	The power supply shall protection when the output over voltage
Over Current Protection	Over Current Point limited to 13 A, the output shall hiccup when the over currents applied to the output rail, and shall be self-recovery when fault removed
Short Circuit Protection	The input power shall decrease when the output rail short, the power supply shall not damage, and shall be self-recovery when the fault condition is removed

Mechanical Specifications

Housing Material	Fully Enclosed Plastic Case
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Overall Dimensions	172.5x71x37mm
Overall Length	172.5mm
Overall Depth	37mm
Overall Width	71mm
Weight	600g

Operation Environment Specifications

Operating Humidity	10% to 90% RH non-condensing
Cooling	Natural convection
Operating Temperature Range	0 to 40°C 10%RH to 90%RH
Storage Temperature Range	-20 to 80°C 5%RH to 95%RH
IP Rating	N/A

Approvals

Declarations	MFR Declaration of Conformity
Safety Standard	IEC 62368-1, EN 62368-1, AS/NZS62368.1
EMC Emission	EN55032, EN55035, IEC 61000-4-2, IEC 61000-4-4, IEC 61000-4-5 and FCC Part 15 Class B

Packaging

Box	230 x 130 x 55mm
Carton	480 x 295 x 300mm
Slab	470 x 285 x 2mm
Weight	Carton (qty 20) 14Kg

Drawings

