

AD12-3751 series

45W Enclosed Type Switching Power Supply



■ Features:

- Constant voltage design
- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over Temperature
- Cooling by free air convection
- Compact size
- Low price



5 9 0 2 1 3 5 4 1 1 9 5 1 8

IP67 equivalent

ELECTRICAL SPECIFICATION

MODEL	AD12-3751
OUTPUT	
Rated Voltage	12V
Rated Current	3.75A
Rated Power	45W
Line Regulation	± 1%
Load Regulation	± 2%
Tolerance [3]	± 5%
Ripple & Noise (max.) [2]	600mV _{p-p}
Setup, Rise Time [4]	300ms, 20ms / 230VAC at full load
Hold up Time	30ms / 230VAC at full load
INPUT	
Voltage Range	110 ÷ 264VAC
Frequency Range	47 ÷ 63Hz
Efficiency (typ.)	83%
AC Current (typ.)	1.0A/115VAC, 0.45A / 230VAC
PROTECTIONS	
Overload	Range: 150 ÷ 200% rated current
	Type: hiccup mode, auto-recovery.
Short Circuit	Type: hiccup mode, auto-recovery.
Over voltage	13 ÷ 18.5V
	Type: shut down output voltage. Re-power on to recovery.
Over Temperature	Range: 100°C ± 10°C
	Type: hiccup mode, auto-recovery.

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WORKING ENVIRONMENT

Working Temperature	-20°C ÷ 50°C
Working Humidity	20 ÷ 90% RH non-condensing
Storage Temperature and Humidity	-40°C ÷ 80°C, 10 ÷ 95% RH non-condensing

SAFETY AND EMC REGULATIONS

Safety Standards	Compliance to EN61347-1, EN61347-2-13, IP67
Withstand Voltage	I-P/O-P: 1.5kVAC; I-P/GND: 1.5kVAC; O-P/GND: 0.5kVAC
EMC Emission	Compliance to EN55015
EMC Immunity	Compliance to EN61547
Harmonic Current	Compliance to EN61000-3-3; EN61000-3-2

OTHERS

Dimensions	222 x 240 x 40.5 x 23mm (length x total length x width x height)
Weight and Packing	0.4kg; 50pcs./ctn; ctn weight and dimensions: 21.5kg; 49 x 31.3 x 23cm

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF i 47µF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation and load regulation.
4. Setup and rise time is measured from 0 to 90% rated output voltage.
5. Power supply is considered as component not indented to apply by end-user. Power supply meets safety and EMC standards however the final equipment with power supply must be re-quality to comply with EMC Directives.

MECHANICAL SPECIFICATION

