

SMLD-12 series

12W Small width shape, Constant voltage Switching Power Supply



■ Features:

- Constant voltage design
- European AC input range
- Protections: Short circuit / Overload
- Cooling by free air convection
- Only 20mm width

RoHS IP67    SELV equivalent

© ELECTRICAL SPECIFICATION

MODEL	SMLD-12-12
OUTPUT	
Rated Voltage	12V
Rated Current	1A
Rated Power	12W
Line Regulation	± 2%
Load Regulation	± 3%
Tolerance [3]	± 5%
Ripple & Noise (max.) [2]	200mV _{p-p}
Setup, Rise Time [4]	1000ms, 30ms / 230VAC at full load
Hold up Time	50ms / 230VAC at full load
INPUT	
Voltage Range	100 ÷ 240VAC
Frequency Range	47 ÷ 63Hz
Efficiency (typ.)	82%
AC Current (typ.)	0.5A / 230VAC
PROTECTIONS	
Overload	Range: >105% of rated current Type: hiccup mode, auto-recovery.
Short Circuit	Type: hiccup mode, auto-recovery.
Over temperature	Range: 140° ± 10° Type: auto-recovery.
WORKING ENVIRONMENT	
Working Temperature	-20°C ÷ 60°C (Refer to Derating Curve)
Working Humidity	20 ÷ 90% RH non-condensing
Storage Temperature and Humidity	-40°C ÷ 80°C, 10 ÷ 99% RH non-condensing

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SAFETY AND EMC REGULATIONS

Safety Standards	Compliance to EN 60950-1
Withstand Voltage	IN/OUT: 1.5kVAC; IN/GND: 1.5kVAC; OUT/GND: 0.5kVAC
EMC Emission	Compliance to EN55032
EMC Immunity	Compliance to EN55035
Harmonic Current	Compliance to EN61000-3-2; EN61000-3-3

OTHERS

Dimensions	190 x 20 x 20mm (L x W x H)
Weight and Packing	0.22kg; 78pcs./ctn; ctn weight and dimensions: 16kg; 47 x 27.5 x 19cm

EAN code

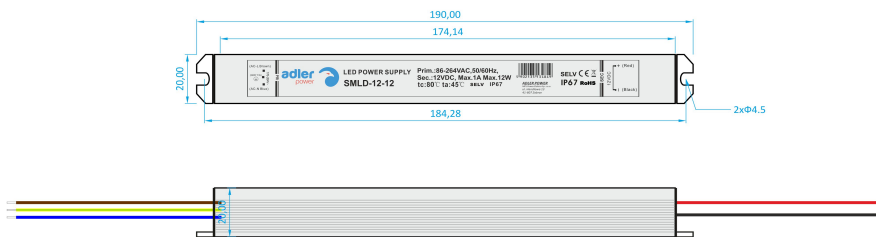


1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF i 47µF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation and load regulation.
4. Setup and rise time is measured from 0 to 90% rated output voltage.
5. Suitable for indoor or outdoor use. Please avoid direct exposure to sunlight and immersion in water for over 30 minutes.
6. 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

INPUT
UL1015 AWG20(0.5mm²)
dt. = 120mm ± 20mm

AC/L (brown)
GND (yellow-green)
AC/N (blue)



OUTPUT
UL1015 AWG20(0.5mm²)
length = 120mm ± 20mm

© DERATING CURVE

