

MPL-12 series

12W Constant Voltage Switching Power Supply



■ Features:

- Constant voltage design
- European AC input
- Protections: Short circuit / Over current / Over voltage
- Cooling by free air convection
- Isolation class II
- IP20 protection level



ELECTRICAL SPECIFICATION

MODEL	MPL-12-12
OUTPUT	
RATED VOLTAGE	12V
RATED CURRENT	1A
CURRENT RANGE	0 ÷ 1A
RATED POWER	12W
LINE REGULATION	± 1%
LOAD REGULATION	± 3%
TOLERANCE	± 5%
RIPPLE & NOISE (MAX.) [4]	< 1.2V _{p,p}
SETUP, RISE TIME	< 500ms / 230VAC at full load
HOLD UP TIME (TYP.)	< 1000ms / 230VAC at full load

INPUT	
VOLTAGE RANGE	176 ÷ 264VAC
FREQUENCY RANGE	50/60Hz
EFFICIENCY (TYP.)	82%
AC CURRENT (TYP.)	0.18A / 230VAC
NO LOAD POWER CONSUMPTION (MAX.)	≤ 0.3W
POWER FACTOR	0.5 ± 0.05
INRUSCH CURRENT (TYP.)	20A / 230VAC

PROTECTIONS	
OVERLOAD	Range: 105-150% Type: auto resume.
SHORT CIRCUIT	Type: auto resume.
OVERVOLTAGE	> 12.6VDC Type: auto resume.

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WORKING ENVIRONMENT

WORKING TEMPERATURE	-10°C ÷ 45°C
WORKING HUMIDITY	20 ÷ 95% RH
STORAGE TEMPERATURE AND HUMIDITY	-20°C ÷ 60°C, 20 ÷ 95% RH

SAFETY and EMC REGULATIONS

SAFETY STANDARDS	Compliance to EN 61347-1, EN 61347-2-13
WITHSTAND VOLTAGE	IN/OUT: 3.75kVAC / 5mA / 1min
ISOLATION RESISTANCE	IN/OUT: 4MΩ / 500VDC
EMC EMISSION	Compliance to EN55015, EN61000-3-2, EN61000-3-3
EMC IMMUNITY	Compliance to EN61547

OTHERS

DIMENSIONS	100 x 42 x 24.5mm (L x W x H)
NET WEIGHT	70g

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 300mm twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.

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MECHANICAL SPECIFICATION

