

# MPL-06 series

6W 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-06-12	MPL-06-24
OUTPUT		
RATED VOLTAGE	12V	24V
RATED CURRENT	0.5A	0.25
CURRENT RANGE	0 ÷ 0.5A	0 ÷ 0.25A
RATED POWER	6W	
LINE REGULATION	± 3%	
LOAD REGULATION	± 2%	
TOLERANCE [3]	± 4%	
RIPPLE & NOISE (MAX.) [2]	< 1.2V <sub>p-p</sub>	< 2.4V <sub>p-p</sub>
SETUP, RISE TIME [4]	1000ms, 50ms / 230VAC at full load	
HOLD UP TIME (TYP.)	8ms / 230VAC at full load	

INPUT		
VOLTAGE RANGE	176 ÷ 264VAC	
FREQUENCY RANGE	47 ÷ 63Hz	
EFFICIENCY (TYP.)	78%	75%
AC CURRENT (TYP.)	0.075A / 230VAC	
NO LOAD POWER CONSUMPTION (MAX.)	0.3W	
POWER FACTOR	> 0.5	
INRUSH CURRENT (TYP.)	15A / 230VAC	

PROTECTIONS		
OVERLOAD	Range: 105-150%	
	Type: hiccup mode, auto-recovery.	
SHORT CIRCUIT	Type: hiccup mode, auto-recovery.	
OVERVOLTAGE	> 12.6V	> 25.2V
	Type: shut off output voltage, auto-recovery.	

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## WORKING ENVIRONMENT

WORKING TEMPERATURE	-10°C ÷ 45°C
WORKING HUMIDITY	10 ÷ 90% RH non-condensing
STORAGE TEMPERATURE AND HUMIDITY	-20°C ÷ 60°C, 10 ÷ 90% RH non-condensing

## SAFETY and EMC REGULATIONS

SAFETY STANDARDS	Compliance to EN 61347-1, EN 61347-2-13
WITHSTAND VOLTAGE	IN/OUT: 3.75kVAC
ISOLATION RESISTANCE	IN/OUT: 4MΩ/500VDC/25°C/70%
EMC EMISSION	Compliance to EN55015, EN61000-3-2, EN61000-3-3
EMC IMMUNITY	Compliance to EN61547, EN61000-4-2, EN61000-4-5

## OTHERS

INPUT WIRE	22AWG, length = 160mm
OUTPUT WIRE	22AWG, length = 110mm
DIMENSIONS	52 x 21 x 43.5mm (L x W x H)
NET WEIGHT	32g

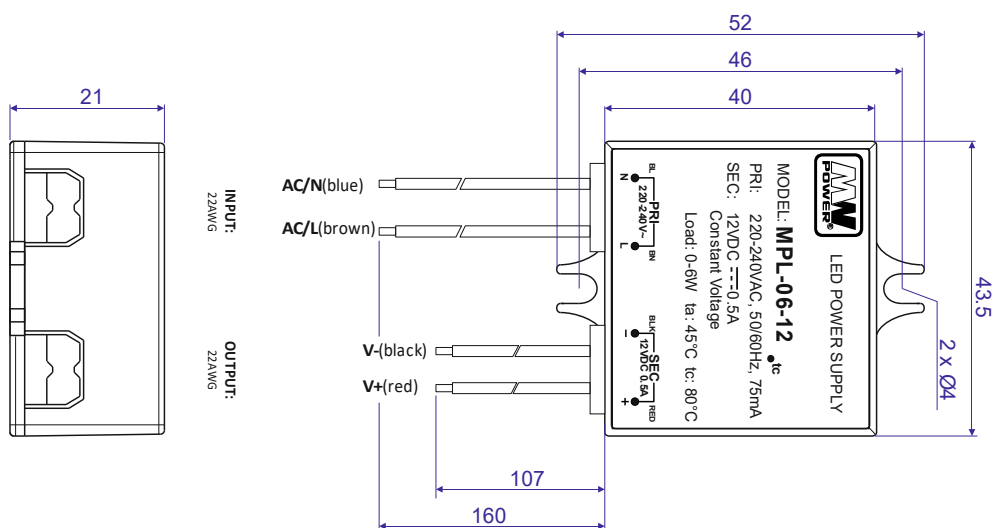
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TBD

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



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