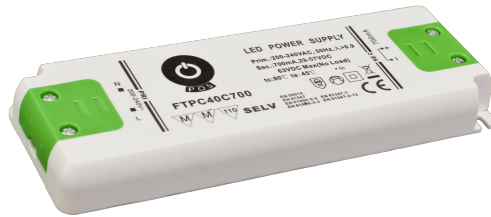


# series FTPC40C

40W LED Constant Current Power Supply



## ■ Features:

- Constant current power supply
- Protections: Short circuit / Over temperature
- Built-in active PFC power factor correction system
- Cooling by free air convection
- II protection class
- Compliance to worldwide regulations for lighting



## ELECTRICAL SPECIFICATION

MODEL	FTPC40C700	FTPC40C1050
<b>OUTPUT</b>		
Rated current	700mA	1050mA
Voltage in no-load condition (max.)	63VDC	45VDC
Voltage range	29 ÷ 57VDC	19÷ 38VDC
Rated power	39.9W	39.9W
Accuracy of $I_{WV}$ stabilization	10%	
Ripples and noise (max.) [2]	300mV <sub>p-p</sub>	300mV <sub>p-p</sub>
Determining time	<0.5s	
<b>INPUT</b>		
The range of voltage values	180 ÷ 264VAC	
Voltage frequency range	47 ÷ 63Hz	
Power factor (typ)	PF > 0.9 / 230VAC full load	
Efficiency (typ.)	85%	85%
Current AC (typ.)	0.3A / 230VAC	
Inrush current (typ.)	70A / 230VAC(25°C)	
Power in no-load condition (typ.)	1W	
<b>PROTECTION</b>		
Short circuit	Type: alternating on / off output voltage. Automatic return to normal operation after the cause disappears.	
Over temperature	Range: detection via integrated PWM driver	
	Type: cut-off of the output voltage. Automatic return to normal operation after the cause disappears.	

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## WORKING ENVIRONMENT

<b>Working temperature</b>	-20°C ÷ 45°C, tc = 85°C
<b>Operating humidity</b>	45 ÷ 85% relative humidity (non-condensing)
<b>Temperature and humidity of storage</b>	-30°C ÷ 70°C, 10 ÷ 98% relative humidity (non-condensing)
<b>IP protection</b>	IP20

## SAFETY STANDS AND ELECTROMAGNETIC COMPATIBILITY

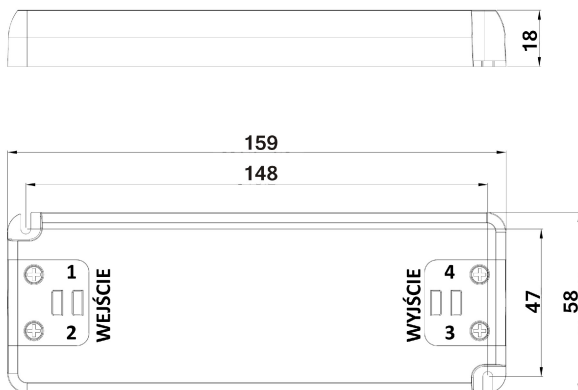
<b>Safety standards</b>	Compatibility with EN61347-1, EN61347-2-13
<b>Insulation durability</b>	WE/WY: 3.75kVAC
<b>Insulation resistance</b>	WE/WY: >2MΩ / 500VDC
<b>EMC emission standards</b>	Compatibility with EN55015
<b>EMC resistance standards</b>	Compatibility with EN61547
<b>Harmonic current</b>	Compatibility with EN61000-3-2, EN61000-3-3

## OTHERS

<b>Dimensions</b>	159 x 58 x 18mm (length x width x height)
<b>Weight and packaging</b>	0.18kg; 100pcs./carton; mass and dimensions of the carton: 19kg, 32.5 x 23 x 36cm

1. The given parameters (unless otherwise stated) have been measured for a 230VAC supply voltage, rated load at an ambient temperature of 25 °C.
2. Ripples and noise were measured for the 20 MHz band using twisted test leads and 0.1μF and 47μF capacitors connected in parallel.
3. The power supply meets the safety standards and electromagnetic compatibility. If the PSU is installed in the final device as a subassembly, the tests should be re-run to verify that the system has been met.

## MECHANICAL SPECIFICATIONS



Lead		
Input	1	AC/N (neutral terminal)
	2	AC/L (phase terminal)
Output	3	V- (negative terminal)
	4	V+ (positive terminal)