

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

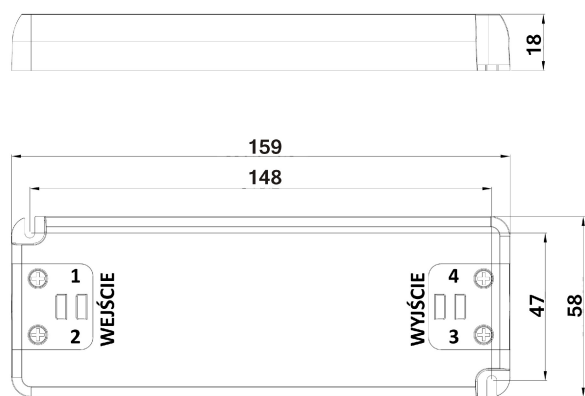


ELECTRICAL SPECIFICATION

MODEL	FTPC40C700	FTPC40C1050
OUTPUT		
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_{wy} stabilization	10%	
Ripples and noise (max.) [2]	300mV _{p-p}	300mV _{p-p}
Determining time	<0.5s	
INPUT		
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	
PROTECTION		
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.	

WORKING ENVIRONMENT	
Working temperature	-20°C ÷ 45°C, tc = 85°C
Operating humidity	45 ÷ 85% relative humidity (non-condensing)
Temperature and humidity of storage	-30°C ÷ 70°C, 10 ÷ 98% relative humidity (non-condensing)
IP protection	IP20
SAFETY STANDS AND ELECTROMAGNETIC COMPATIBILITY	
Safety standards	Compatibility with EN61347-1, EN61347-2-13
Insulation durability	WE/WY: 3.75kVAC
Insulation resistance	WE/WY: >2MΩ / 500VDC
EMC emission standards	Compatibility with EN55015
EMC resistance standards	Compatibility with EN61547
Harmonic current	Compatibility with EN61000-3-2, EN61000-3-3
OTHERS	
Dimensions	159 x 58 x 18mm (length x width x height)
Weight and packaging	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)

EU DECLARATION OF CONFORMITY

For the following equipment:

Part No.:	FTPC40C700, FTPC40C1050
Batch No.:	S17xxxxxxxxx

Is herewith confirmed to comply with the requirements set out in the Council Directive, the following standards were applied:

ROHS Directive 2011/65/EU

Low Voltage Directive 2014/35/UE:

Standard	Description
EN 61347-1:2015	Lamp controlgear. General and safety requirements
EN 61347-2-13:2014	Lamp controlgear. Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules
EN 62493:2015	Assessment of lighting equipment related to human exposure to electromagnetic field

Electromagnetic Compatibility Directive 2014/30/UE:

Standard	Description
EN 55015:2013 + A1:2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 61000-3-2:2014	Electromagnetic compatibility (EMC). Limits. Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
EN 61000-3-3:2013	Electromagnetic compatibility (EMC). Limits. Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection
EN 61547:2009	Equipment for general lighting purposes. EMC immunity requirements

Power supply is considered as component of final equipment not intended 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 and LVD Directives.

Gliwice, 11.07.2017r.

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Pieczęć firmy


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