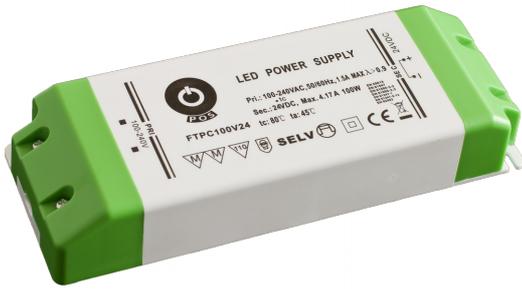


# FTPC100V series

100W Constant Voltage Single Output LED Power Supply



## ■ Features:

- Protections: Short circuit / Over load / Over temperature
- Cooling by free air convection
- Built-in active PFC function
- Isolation class II
- Compliance to worldwide safety regulations for lighting



## ELECTRICAL SPECIFICATION

MODEL	FTPC100V12	FTPC100V24
<b>OUTPUT</b>		
<b>RATED VOLTAGE</b>	12V	24V
<b>RATED CURRENT</b>	8.33A	4.17A
<b>POWER RANGE</b>	0 ÷ 99.96W	
<b>RATED POWER</b>	99.96W	
<b>LINE REGULATION</b>	± 1%	
<b>LOAD REGULATION</b>	± 3%	
<b>VOLTAGE TOLERANCE [3]</b>	± 5%	
<b>RIPPLE &amp; NOISE (max.) [2]</b>	300mV <sub>p-p</sub>	400mV <sub>p-p</sub>
<b>SETUP TIME [4]</b>	500ms	
<b>INPUT</b>		
<b>VOLTAGE RANGE</b>	90 ÷ 264VAC	
<b>FREQUENCY RANGE</b>	47 ÷ 63Hz	
<b>POWER FACTOR (typ.)</b>	PF > 0.9 / 230VAC, PF > 0.98 / 115VAC at full load	
<b>EFFICIENCY (typ.)</b>	90%	90%
<b>AC CURRENT (typ.)</b>	1.1A/115VAC, 0.6A/230VAC	
<b>INRUSH CURRENT (typ.)</b>	75A / 230VAC(25°C)	
<b>NO LOAD POWER CONSUMPTION (typ.)</b>	< 0.5W	
<b>PROTECTIONS</b>		
<b>OVERLOAD</b>	Range: 120 ÷ 200% rated output power	
	Type: hiccup mode, auto-recovery	
<b>SHORT CIRCUIT</b>	Type: hiccup mode, auto-recovery	
<b>OVER TEMPERATURE</b>	Range: 110°C ±5°C	
	Type: shut down output voltage, re-power on to recovery	

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## ENVIRONMENT

<b>WORKING TEMPERATURE</b>	-20°C ÷ 45°C, tc = 80°C
<b>WORKING HUMIDITY</b>	45 ÷ 85% RH non-condensing
<b>STORAGE TEMPERATURE AND HUMIDITY</b>	-30°C ÷ 70°C, 10 ÷ 98% RH non-condensing
<b>VIBRATION</b>	10 ÷ 500Hz, 2G, 10min / cycle, period for 30min. each along X, Y, Z axes
<b>IP PROTECTION</b>	IP20

## SAFETY & EMC REGULATIONS

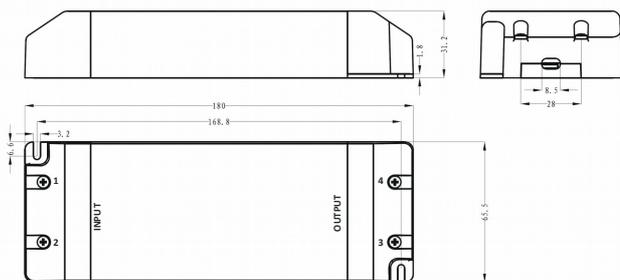
<b>SAFETY STANDARDS</b>	Compliance to EN61347-1, EN61347-2-13
<b>WITHSTAND VOLTAGE</b>	I-P/O-P: 3.75kVAC/1min
<b>ISOLATION RESISTANCE</b>	I-P/O-P: 2MΩ/500VDC/25°C/70%
<b>EMC EMISSION</b>	Compliance to EN55015
<b>EMC IMMUNITY</b>	Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11
<b>HARMONIC CURRENT</b>	Compliance to EN61000-3-3; EN61000-3-2 class C(20% load)

## OTHERS

<b>DIMENSIONS</b>	180 x 65.5 x 31.2mm
<b>WEIGHT AND PACKING</b>	0.4kg; 40pcs./box; box weight and dimensions: 18.2kg, 40.5 x 39 x 16.5cm

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 is measured from 0 to 90% rated output voltage.
5. Power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment must be re-qualified to comply with EMC Directives.

## MECHANICAL SPECIFICATION



Terminal Assignment		
INPUT	1	AC/N: AC neutral
	2	AC/L: AC line
OUTPUT	3	V-: DC OUTPUT -
	4	V+: DC OUTPUT +