

# FTP15V12 series

15W Constant Voltage Single Output LED Power Supply



## ■ Features:

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



## ELECTRICAL SPECIFICATION

MODEL	FTP15V12
<b>OUTPUT</b>	
RATED VOLTAGE	12V
RATED CURRENT	1.25A
POWER RANGE	1 ÷ 15W
RATED POWER	15W
LINE REGULATION	± 2%
LOAD REGULATION	± 2%
VOLTAGE TOLERANCE [3]	± 5%
RIPPLE & NOISE (max.) [2]	600mV <sub>p-p</sub>
SETUP TIME [4]	2000ms
<b>INPUT</b>	
VOLTAGE RANGE	180 ÷ 264VAC
FREQUENCY RANGE	47 ÷ 63Hz
EFFICIENCY (typ.)	75%
AC CURRENT (typ.)	0.25A/230VAC
INRUSH CURRENT (typ.)	50A / 230VAC(25°C)
NO LOAD POWER CONSUMPTION (typ.)	< 0.5W
<b>PROTECTIONS</b>	
OVERLOAD	Range: 110 ÷ 130% rated output power
	Type: hiccup mode, auto-recovery.
SHORT CIRCUIT	Type: hiccup mode, auto-recovery.
OVER TEMPERATURE	Range: 110°C ± 10°C
	Type: shut down output voltage, auto recovery.

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## ENVIRONMENT

<b>WORKING TEMPERATURE</b>	-20°C ÷ 45°C, tc = 85°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, 12min / cycle, period for 30min. each along X, Y, Z axes
<b>IP PROTECTION</b>	IP20

## SAFETY & EMC REGULATIONS

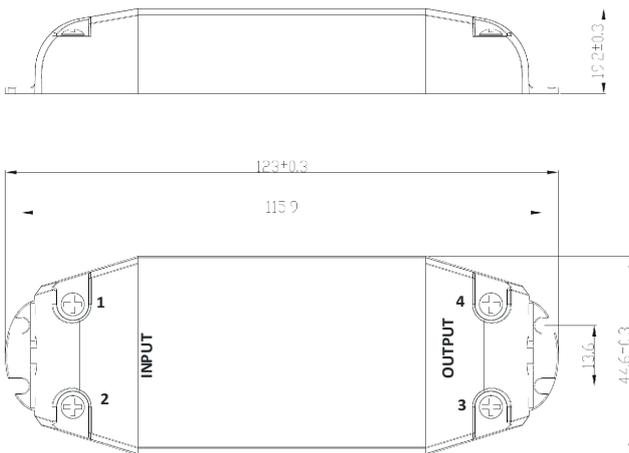
<b>SAFETY STANDARDS</b>	Compliance to EN61347-1, EN61347-2-13
<b>WITHSTAND VOLTAGE</b>	I-P/O-P: 3.75kVAC/1min
<b>ISOLATION RESISTANCE</b>	I-P/O-P: 2MΩ/500VDC/25°C/70%
<b>EMC EMISSION</b>	Compliance to EN55015
<b>EMC IMMUNITY</b>	Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11
<b>HARMONIC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

## OTHERS

<b>DIMENSIONS</b>	123 x 44 x 19.2mm
<b>WEIGHT AND PACKING</b>	0.069kg; 200pcs./box; box weight and dimensions: 16.7kg, 47 x 25.5 x 29cm

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 +