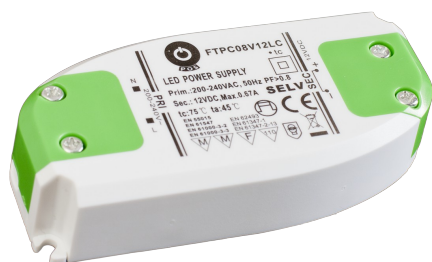


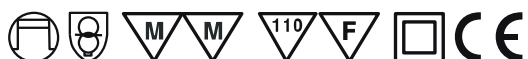
# FTPC8V12 series

8W 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                            | FTPC8V12                                       |
|----------------------------------|------------------------------------------------|
| OUTPUT                           |                                                |
| RATED VOLTAGE                    | 12V                                            |
| RATED CURRENT                    | 0.67A                                          |
| POWER RANGE                      | 1 ÷ 8.04W                                      |
| RATED POWER                      | 8.04W                                          |
| LINE REGULATION                  | ± 2%                                           |
| LOAD REGULATION                  | ± 2%                                           |
| VOLTAGE TOLERANCE [3]            | ± 5%                                           |
| RIPPLE & NOISE (max.) [2]        | 500mV <sub>p-p</sub>                           |
| SETUP TIME [4]                   | 500ms                                          |
| INPUT                            |                                                |
| VOLTAGE RANGE                    | 180 ÷ 264VAC                                   |
| FREQUENCY RANGE                  | 47 ÷ 63Hz                                      |
| EFFICIENCY (typ.)                | 76%                                            |
| AC CURRENT (typ.)                | 0.1A/230VAC                                    |
| INRUSH CURRENT (typ.)            | 50A / 230VAC(25°C)                             |
| NO LOAD POWER CONSUMPTION (typ.) | < 0.5W                                         |
| PROTECTIONS                      |                                                |
| 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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8W Constant Voltage Single Output LED Power Supply



## ENVIRONMENT

|                                  |                                                                          |
|----------------------------------|--------------------------------------------------------------------------|
| WORKING TEMPERATURE              | -20°C ÷ 45°C, tc = 85°C                                                  |
| WORKING HUMIDITY                 | 45 ÷ 85% RH non-condensing                                               |
| STORAGE TEMPERATURE AND HUMIDITY | -30°C ÷ 70°C, 10 ÷ 98% RH non-condensing                                 |
| VIBRATION                        | 10 ÷ 500Hz, 2G, 12min / cycle, period for 30min. each along X, Y, Z axes |
| IP PROTECTION                    | IP20                                                                     |

## SAFETY & EMC REGULATIONS

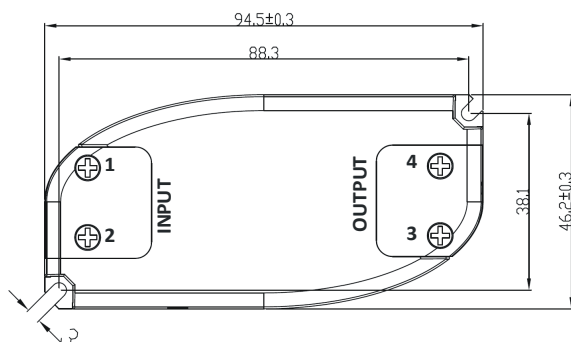
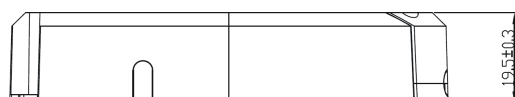
|                      |                                                             |
|----------------------|-------------------------------------------------------------|
| SFAETY STANDARDS     | Compliance to EN61347-1, EN61347-2-13                       |
| WITHSTAND VOLTAGE    | I-P/O-P: 3.75kVAC/1min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

## OTHERS

|                    |                                                                             |
|--------------------|-----------------------------------------------------------------------------|
| DIMENSIONS         | 94.5 x 46.2 x 19.5mm                                                        |
| WEIGHT AND PACKING | 0.064kg; 200pcs./box; box weight and dimensions: 13.5kg, 44.5 x 26.5 x 28cm |

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-qualify 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 +  |