FTPC100V-FP series

100W LED Power Supply (CV)



■ Features:

- Constant voltage design
- European AC input range
- Protections: Overload / Short circuit / Over voltage / Over temperature
 - Cooling by free air convection
 - Compliance to worldwide regulations for lighting
 - IP44 protection level



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| ELECTRICAL SPECIFICATION | | |
|-------------------------------|-----------------------------|----------------------|
| MODEL | FTPC100V12-FP | FTPC100V24-FP |
| OUTPUT | | |
| RATED VOLTAGE | 12V | 24V |
| RATED CURRENT | 8.33A | 4.17A |
| CURRENT RANGE | 0 ÷ 8.33A | 0 ÷ 4.17A |
| RATED POWER | 100W | 100W |
| No LOAD OUTPUT VOLTAGE (MAX.) | 12.6V | 25.2V |
| LINE REGLATION | ± 0.5% | ± 0.5% |
| LOAD REGLATION | ± 1% | ± 1% |
| Voltage Tolerance [3] | ± 5% | ± 5% |
| RIPPLE & NOISE (MAX.) [2] | 180mV _{P-P} | 250mV _{p.p} |
| SETUP TIME [4] | 500ms / 230VAC at full load | |
| HOLD UP TIME (MIN.) | 5ms / 230VAC at full load | |

| INPUT | | |
|----------------------------------|---------------------|-----|
| VOLTAGE RANGE | 200 ÷ 264VAC | |
| FREQUENCY RANGE | 50 ÷ 60Hz | |
| Power Factor (MAX.) | PF ≥ 0.9 | |
| EFFICIENCY (MAX.) | 90% | 90% |
| AC CURRENT (TYP.) | <0.64A / 230VAC | |
| INRUSH CURRENT (MAX.) | <75A / 230VAC(25°C) | |
| No Load Power Consumption (max.) | < 0.21W | |

| PROTECTIONS | | |
|------------------|---|--|
| Over Current | Range: < 200% rated output power | |
| OVER CURRENT | Type: hiccup mode. Recovers automatically after fault condition is removed. | |
| SHORT CIRCUIT | Type: hiccup mode. Recovers automatically after fault condition is removed. | |
| OVER VOLTAGE | Range: max. 150% rated output voltage | |
| Over Temperature | Range: Tc < 115°C | |
| | Type: shut down output voltage. Re-power on to recovery | |
| | | |

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| WORKING ENVIRONMENT | | |
|----------------------------------|---|--|
| WORKING TEMPERATURE | -20°C ÷ +45°C | |
| Working Humidity | 45 ÷ 85% RH | |
| STORAGE TEMPERATURE AND HUMIDITY | -30°C ÷ +70°C, 10 ÷ 95% RH non-condensing | |

| SAFETY AND EMC REGULATIONS | | |
|----------------------------|--|--|
| SAFETY STANDARDS | Compliance to EN61347-1, EN61347-2-13 | |
| WITHSTAND VOLTAGE | IN/OUT: 3.75kVAC | |
| EMC Emission | Compliance to EN55015 | |
| EMC IMMUNITY | Compliance to EN61547; EN61000-4-2, 3, 4, 5, 6 | |
| HARMONIC CURRENT | Compliance to EN61000-3-2 | |

| OTHERS | | |
|------------------------------|--|--|
| INPUT WIRES | $H05VVH2-F 2*1.0MM^2$, Length = 15cm ± 3cm | |
| O UTPUT W IRES | H05VVH2-F 2*1.0MM², Length = 15cm ± 3cm | |
| DIMENSIONS | 167.5 x 58 x 17.5mm (L x W x H) | |
| Weight and Packing | 0.23kg; 50pcs./carton; carton dimensions: 30.5 x 19 x 30.5cm | |
| | | |

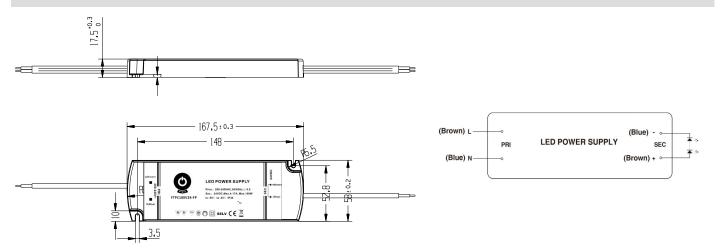
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- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF i 47µF parallel capacitor.
- 3. Tolerance includes set up tolerance, line regulation and load regulation.
- 4. Setup and rise time is measured from 0 to 90% rated output voltage.
- 5. Power supply is considered as component not indented to apply by end-user. Power supply meets safety and EMC standards however the final equipment with power supply must be requality to comply with EMC Directives.

MECHANICAL SPECIFICATION



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