

45W Single Output LED Power Supply

Features

- For LED Indoor Office/ Commercial Application
- Compact Size 2" x 4" x 1.2"
- Built in PFC Function
- Built in Constant Current Limiting Design (C.V. + C.C. Mode)
- Wide Range Input 100-240Vac
- 100% Burn-in Test
- Safety: Meet IEC61347-2-13, UL8750 & EMI EN55015
- Protections: Short Circuit/ Over Voltage/ Over Temperature
- Class 2 power unit



SPECIFICATIONS

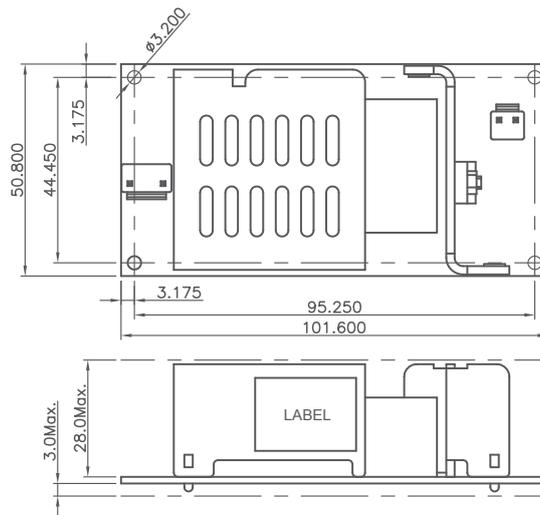
| Model Name | FSP045IWCS0120 | FSP045IWCS0190 | FSP045IWCS0240 | FSP045IWCS0360 | FSP045IWCS0480 |
|------------------------------|---|----------------|----------------|----------------|----------------|
| Rated Power | 45.6W | 45.6W | 45.6W | 45W | 45.6W |
| Output Voltage [2] | 9-12V | 14-19V | 18-24V | 26-36V | 36-48V |
| Rated Current | 3800mA | 2400mA | 1900mA | 1250mA | 950mA |
| Efficiency (typ.) | 84% | 86% | 86% | 87% | 88% |
| Input Voltage/ Frequency | 100~240Vac/ 47~63Hz | | | | |
| Power Factor (max.) | ≥0.9 | | | | |
| AC Current (max.) | <0.65A | | | | |
| Leakage Current | < 0.75mA/240Vac | | | | |
| Turn On Delay Time,Rise time | ≤500ms max / 80ms | | | | |
| Inrush Current (max.) | 42A / 230Vac cold start | | | | |
| Output Current Accuracy | ±5% | | | | |
| Ripple & Noise [3] | 4.2Vp-p | 4.3Vp-p | 3.8Vp-p | 4.2Vp-p | 4.8Vp-p |
| Line Regulation | ±3% | | | | |
| Operating Temperature | -20°C~+50°C | -20°C~+60°C | | | |
| Operating Humidity | 20~95% RH | | | | |
| Storage Temperature | -40~+85°C | | | | |
| Storage Humidity | 10~95%RH | | | | |
| Life Time | 50,000 hours | | | | |
| Vibration | 0.01g ² /Hz at 5 Hz sloping to 0.02g ² /Hz at 20 Hz, and maintaining 0.02g ² /Hz from 20 Hz to 500 Hz at a constant acceleration of 3.13G for 20 minutes per axis for all three axes | | | | |
| Short Circuit Protection | Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | |
| Over Current Protection [3] | 100~120% Protection type : Constant current limiting, recovers automatically after fault condition is removed | | | | |
| Over Voltage Protection | 14~16V | 24~30V | 28~35V | 45~52V | 57~63V |
| | Protection type : Shut down o/p voltage, re-power on to recover | | | | |
| Surge Voltage | Differential Mode≥1KV; Common Mode≥2KV | | | | |
| Withstand Voltage (Hipot) | I/P-O/P 3750Vac, I/P-FG 1875Vac | | | | |
| Isolation Resistance | I/P-O/P I/P-FG: 100M ohm @ 500Vdc/ 25°C | | | | |
| Safety Standards | EN61347-1, EN61347-2-13, UL8750 | | | | |
| EMC Standard | Compliant with EN55015 CLASS B | | | | |
| Dimension (LxWxH) | 101.6 x 50.8 x 28 mm | | | | |
| Net Weight / Packing | 165g | | | | |

Notes:

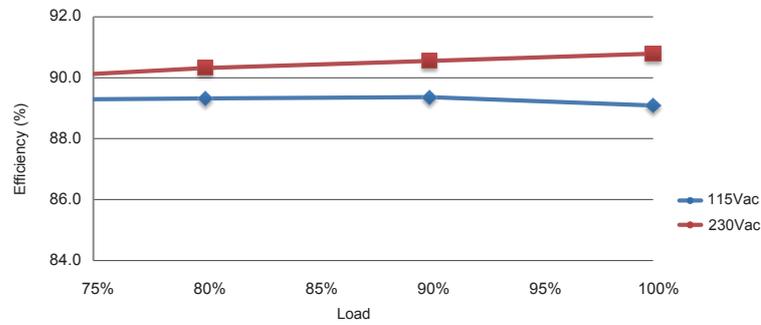
1. Data that didn't mention is tested under 230 Vac/ 50Hz full load condition.
2. Data at full load and rated voltage, 230Vac/50Hz input, and 30°C ambient temperature unless otherwise specified.
3. The ripple current must be measured under the condition of AC coupling & 20MHz bandwidth (Rated input and rated output)
4. The 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 manufacturers must re-qualify EMC Directive on the complete installation again.

MECHANICAL DIMENSION

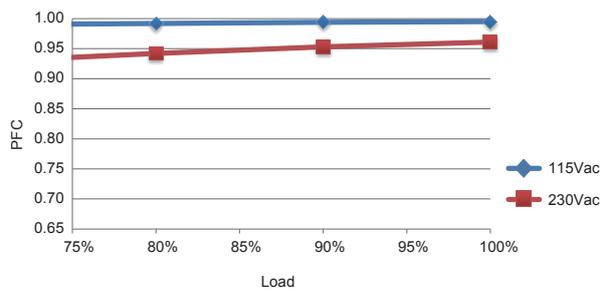
Unit: mm



Efficiency



PFC vs Loading



THD vs Input Voltage

