# PSF100 SERIES 100 Watts

## KEY FEATURES

- Fully Isolated Plastic Case with IP67 Level
- With Constant Current & Constant Voltage (C.C+C.V mode)
- With P.F.C. Function, PF>0.9
- High Efficiency up to 90%
- Free Air Convection
- Protections: Over Load / Over Voltage / Short Circuit
- High Reliability & Double Layered PCB
- Suitable for LED lighting and moving sign applications
- Isolation Class II
- 3-Year Product Warranty




IP67 CE cULus E347942 LEVEL3

## ELECTRICAL SPECIFICATIONS

All specifications valid at normal input voltage, full load and +25°C after warm-up time unless otherwise stated.

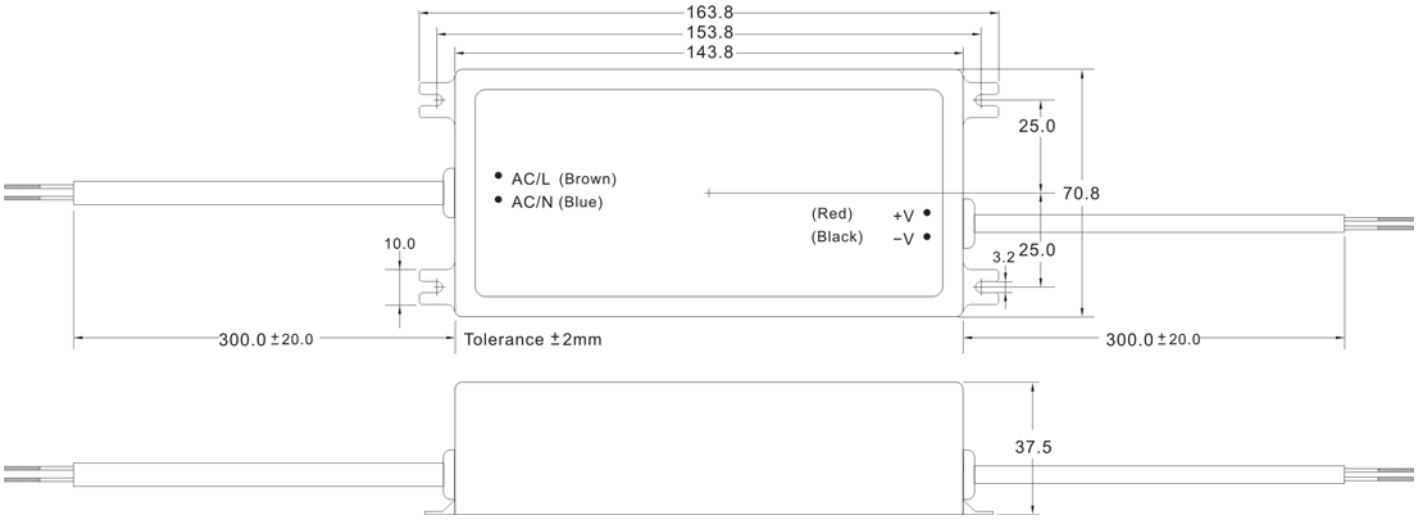
| Model No. | | PSF100-24S | PSF100-36S | PSF100-48S | PSF100-54S |
|---|---|---|---|---|---|
| Max output wattage ( W ) | | 96W | 96W | 96W | 95.58W |
| Input | Voltage (Note2) | 90-295 VAC | | | |
| | Frequency (Hz) | 50 / 60 Hz | | | |
| | Power factor | PF>0.9 at Full load (115 VAC / 230 VAC) | | | |
| | Current (Full load) | 1.4A (115 VAC) / 0.7A (230 VAC) | | | |
| | Inrush current (at 230 VAC) | 60 A max. | | | |
| | Leakage Current | < 0.7 mA max at 240 VAC | | | |
| Output | Voltage (V.DC.) | 24V | 36V | 48V | 54V |
| | Voltage ADJ Range Setup (CV Mode) | 22 ~ 26.5V | 33 ~ 39.5V | 44 ~ 51.5V | 49 ~ 55V |
| | Constant Current Operation Voltage (max) (CC Mode) (Note3) | 15.6~ 24 VDC | 23.4~36 VDC | 31.2~48 VDC | 35.1~54 VDC |
| | Voltage Tolerance | ±10% | | | |
| | Preset Current (mA) (CC Mode) (fixed) (at 230 VAC) | 3500 (2600~4000) | 2100 (1720~2650) | 1750 (1300~2000) | 1400 (1150~1770) |
| | Minimum Load (mA) | 2600 | 1720 | 1300 | 1150 |
| | Line Regulation (typ.) (110-240 VAC) | ±4% | | | |
| | Load Regulation (Min-Max) (typ.) | ±5% | | | |
| | Ripple & Noise (typ.) (Note1) | 2.7Vp-p | 5Vp-p | | |
| | Efficiency (at 230VAC / Full Load)(typ) | 89% | 90% | 89% | 90% |
| Protection | Over current protection | Auto recovery | | | |
| | Over voltage protection | Zener diode clamp | | | |
| | Short circuit protection | Auto recovery | | | |
| Isolation | Input-Output (V.AC) | 3750V | | | |
| Environment | Operating temperature | -30°C…+70°C (with derating) | | | |
| | Storage temperature | -40°C…+85°C | | | |
| | Temperature coefficient | 0.02%/°C | | | |
| | Humidity | 95% RH | | | |
| | MTBF | >450,000 h @ 25°C (MIL-HDBK-217F) | | | |
| Physical | Dimension (L x W x H) | 5.67 x 2.76 x 1.48 Inches ( 144.0 x 70.0 x 37.5 mm ) Tolerance ±2mm | | | |
| | Weight | 640 g | | | |
| | Cooling method | Free air convection | | | |
| Safety | Agency Approvals | UL8750、IEC / EN 61347-2-13、 IEC / EN 61347-1 | | | |
| EMC | EMI (Conducted & Radiated Emission) | EN 55015 | | | |
| | EMS (Noise Immunity) | EN 61547 | | | |
| | Harmonic Current | EN 61000-3-2(at Full Load)、EN 61000-3-3 | | | |
| | Surge | 2KV L-N | | | |

# PSF100 SERIES 100 Watts

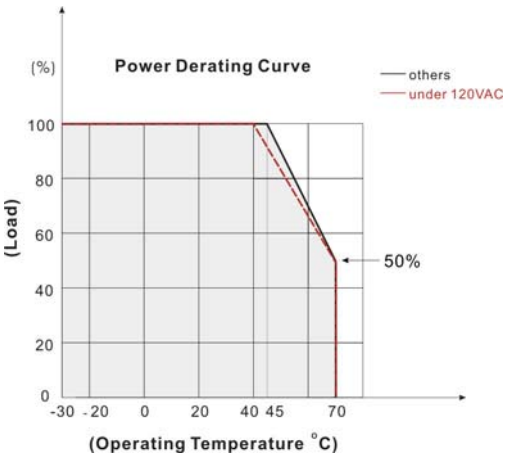
## Note:

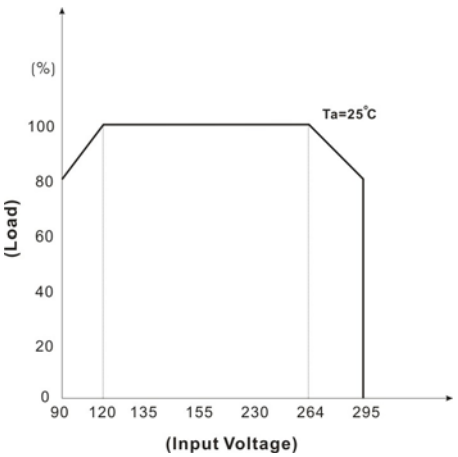
1. Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF & 47uF parallel capacitor.
2. Please check the derating curve for more details.
3. Input Voltage=115 or 230 VAC。This is the suitable operation region for LED related application.but please reconfirm special electrical requirements for some specific system design.
4. Please contact us for more information.
5. It's recommended to add Varistor 14S561K at L / N input side in parallel.
6. This driver is suggested for LED application only.
7. Direct connection to LEDs is suggested. Connecting additional drivers would not be appropriate.

## MECHANICAL DIMENSION ( Top View )




## DERATING




## BLOCK DIAGRAM

