

60Watt Single Output Switching LED Power Supply

IZV024-060F-9067C-QA Series

Product Overview

IZV024-060F-9067C-QA is a 60W RoHS compliant mains in 24V output Constant Voltage Power Supply, of waterproof designs, suitable for LED lighting applications both indoors and out.

Applications

- LED Street Lighting
- Outdoor LED Lighting
- LED Downlights and Office Lighting

Technical Features

- Universal AC input/Full range
- Protections: Short circuit / Overload / Over voltage
- Over temperature protection
- Built in active Power Factor Correction
- Fully encapsulated with IP67 rating
- UL60950 Class 2 power unit, pass LPS
- Cooling by free air convection
- 100% full load burn-in test
- High reliability
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting



Product Options

ILS PART NUMBER	Input Voltage	Current	Power	LED Configuration	Operating Temperature	Dimensions mm
IZV024-060F-9067C-QA	24V	2.5A	60W	36-54	-20°C - 45°C	203x42x32

Specification

Output

- Voltage Tolerance $\pm 3.0\%$
- Line Regulation $\pm 1.0\%$
- Load Regulation $\pm 2.0\%$
- Setup, Rise Time 1000ms, 80ms / 230VAC 1000ms, 80ms / 115VAC at full load
- Hold Up Time 60ms / 230VAC 30ms / 115VAC at full load

Input

- Voltage Range 100 ~ 240VAC
- Frequency Range 47~63Hz
- Power Factor PF>0.95/230VAC PF>0.98/115VAC at full load PF \geq 0.9at 75 ~ 100% load, 115VAC/ 230VAC
- Efficiency 86%
- AC Current 1.2A / 115VAC 0.6A / 230VAC
- Inrush Current COLD START 65A/230VAC
- Leakage Current <1mA / 240VAC

Protect On

- Over Current 95 ~ 120% Constant current limiting, recovers automatically after faultcondition is removed
- Short Circuit Hiccup mode, recovers automatically after fault condition is removed
- Over Voltage 36~48V Shut down o/p voltage, re-power on to recover
- Over Temperature Tj 140 °C typically(U1) Detect on main control IC

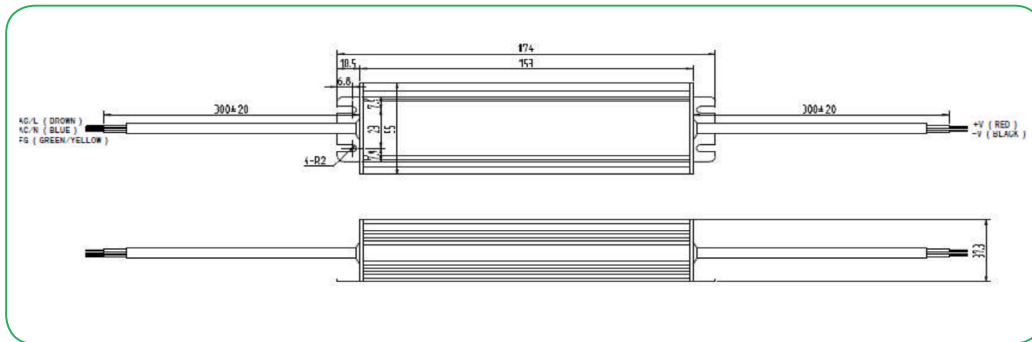
Environment

- Working Temp -30 ~ +50 @full load ; +70@ 60% load
- Working Humidity 20~95% RH non-condensing
- Storage Temp, Humidity -40~80 °C, 10~95% RH
- Temp Coefficient $\pm 0.03\%/^{\circ}\text{C}$ (0~50 °C)
- Vibration 10 ~ 500Hz, 5G 12min./1 cycle, period for 72min. each along X, Y, Z axes

Safety and EMC

- Safety Standards Design refer to UL1310 Class 2,TUV EN60950-1, EN61347-2-13, CAN/ CSA C22.2 No. 223-M91
- Withstand Voltage I/P-O/P:3.0KVAC I/P-FG:1.5KVAC
- Isolation Resistance I/P-O/P:>100M Ohms / 500VDC / 25~70% RH
- EMI Conduction and Radiation Compliance to EN55015, EN55022 (CISPR22) Class B
- Harmonic Current Compliance to EN61000-3-2 Class C ($\geq 75\%$ load) ; EN61000-3-3
- EMS Immunity Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN61547, light industry level

Technical Drawing



RoHS Compliance

Our products comply with the European Directive 2002/95/EC, calling for the elimination of lead and other hazardous substances from electronic products

For further information please contact ILS

The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification.