

# 40Watt Single Output Dimming LED Power Supply

## IZC105-040A-9067A-QA Series

### Product Overview

IZC105-040A-9067A-QA operates from a 100-240 Vac input range. This unit will provide up to a 1050mA of output current and a maximum output voltage of 40Vdc for 42W maximum of output power. It is designed to be highly efficient and highly reliable. There are 3 options for this unit (0-10V, PWM and Resistance). Features include Power Factor Correction and fully encapsulated to IP67, suitable for LED applications both indoor and out.

### Applications

- LED Signs
- LED Strips and Tapes
- Outdoor LED Lighting
- Display Cases
- LED Down Lights and Office Lighting
- Retail and Entertainment Lighting



### Technical Features

- Fully encapsulated IP67 rating
- Over current protection
- Build in high power factor correction >0.9
- 100% Full Load Burn-In Test
- Cooling in free air
- High reliability
- UL approved

### Product Options

ILS PART NUMBER	Voltage	Current	Power	LED Config.	Operating Temperature	Dimensions
IZC105-040A-9067C-QA	24~40V	1050mA	42W	8-13	-30°C ~ 60°C	149X42X34mm

## 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 - 277VAC
- Frequency Range 47~63Hz
- Power Factor PF>0.95/230VAC PF>0.99/115VAC at full load PF $\geq$ 0.9 at 75 ~ 100% load, 115VAC / 230VAC
- Efficiency 88%
- AC Current 0.65A / 115VAC 0.35A / 230VAC
- Inrush Current COLD START 65A/230VAC
- Leakage Current <2mA / 240VAC

### Protect On

- Over current 95 ~ 108% Constant current limiting, recovers automatically after fault condition is removed
- Short Circuit Hiccup mode, recovers automatically after fault condition is removed
- Over Voltage 50-60V Shut down o/p voltage, re-power on to recover
- Over Temperature Tj 140 °C typically(IC1) Detect on main control IC

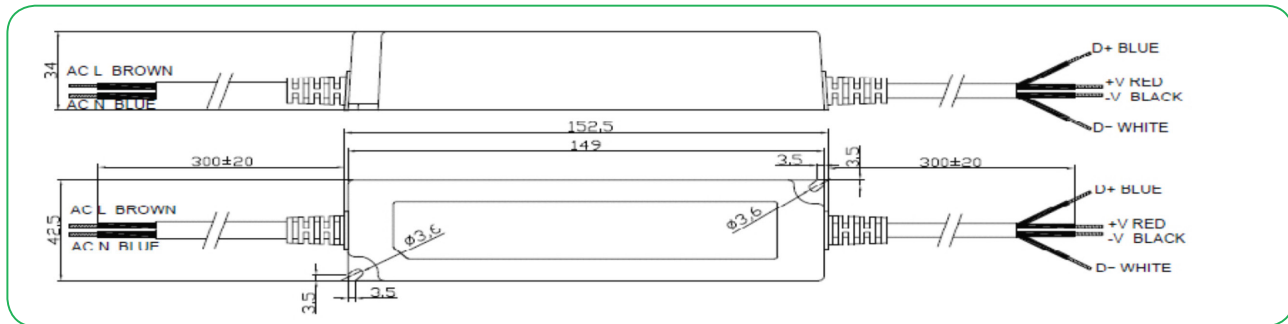
### Environment

- Working Temp -30 ~ +60 °C @ full load ; +90 °C @ 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 & 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
- Isolation Resistance I/P-O/P:>100M Ohms / 500VDC / 25~70% RH
- EMI Conduction & 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, criteria A

## 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.