

# 75Watt Single Output Constant Current LED Driver

**IZC140-075F-9067A-QAL**

## Product Overview

IZC140-075F-9067A-QAL is a RoHs compliant single output Constant Current power supplies, of a water proof design suitable for indoor and outdoor lighting applications. Built-in active Power Factor Correction.

## Technical Features:

- LED Signs
- LED Strips and Tapes
- Outdoor LED Lighting
- Display Cases
- LED Down Lights and Office Lighting
- Retail and Entertainment Lighting
- Extruded Remote Phosphor Light Engines



## Applications:

- Universal AC input/Full range
- Protections: Short circuit / Overload / Over voltage /Over temperature
- Built in active PFC function
- Fully encapsulated with IP67 level
- UL60950 Class 2 power unit, pass LPS
- Cooling by free air convection
- 100% full load burn-in test
- High reliability
- Compliance to worldwide safety regulations for lighting
- Damp / wet location outdoor application

## Product Options

ILS PART NUMBER	Output Voltage	Output Current	Power	LED Config.	Operating Temperature	Dimensions
IZC140-075F-9067A-QAL	54V	1400mA	18W	2-7 White LEDs	-20°C to +50°C	L113xW44xH28mm

## 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 $\geq$ 0.975 ~ 100%load,15VAC/230VAC
- Efficiency (typ) 88%
- AC Current 1.3A/11VAC 0.65A/230VAC
- Inrush Current Cold Start 65A/230VAC
- Leakage Current <1mA/240VAC

### Protect On

- Over current 95 ~ 108%
- Over current Protection type: Constant Current limiting, recovers automatically after fault
- Short Circuit Hiccup mode, recovers automatically after fault condition is removed
- Over voltage 665 ~ 73V
- Over voltage Protection type: Shut down o/p voltage, recovers automatically after temp reduce

### 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

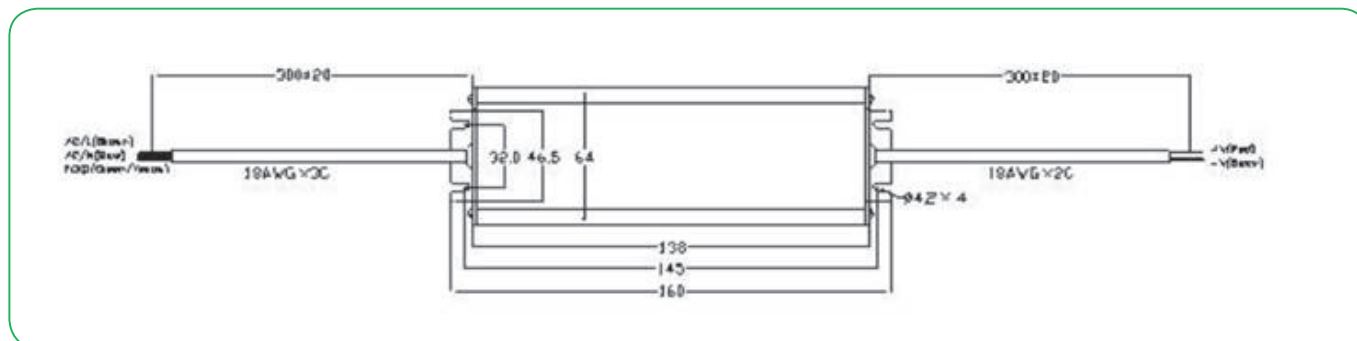
### Safety & EMS

- Safety Standards Design refer to UL1310 Class 2,TUV EN60950-1, EN61347-2-13, CAN/CSA C22.2 No. 223-M91, meet IP67
- 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 , criteria A

### Dimension

- 160\*65.5\*40.3mm (L\*W\*H)

## Mechanical Drawing



### 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.