LFWC-072 Series

8-68W, 100~277Vac Input, Constant Current LED Driver

RoHS Compliant

Features

- Power Rating: 48-68W
- Input Voltage: 100-277Vac
- Constant current design
- Fixed output current(1200mA-1700mA)
- Efficiency to 88%
- Non-Dimming
- SCP, LED disconnection protection
- 5-year warranty
- Surge Protection level L-N: 1kv

*Product images are for illustrative purposes only and may vary from actual design.

Application

- Indoor or outdoor lights

Model List*(See part number scheme for model number details)

Model Number	Input Voltage Range	Output Power	Output Voltage	Output Current Min.	Output Current Max.	Efficiency	Certification
LFWC-072S120PS	100~277Vac	48W	25-40V	1200mA	1200mA	88%	UL/cUL
LFWC-072S140PS	100~277Vac	56W	25-40V	1400mA	1400mA	88%	UL/cUL
LFWC-072S150PS	100~277Vac	60W	25-40V	1500mA	1500mA	88%	UL/cUL
LFWC-072S160PS	100~277Vac	64W	25-40V	1600mA	1600mA	88%	UL/cUL
LFWC-072S170PS	100~277Vac	68W	25-40V	1700mA	1700mA	88%	UL/cUL

Technical Data

Input voltage range	100~277Vac
Frequency	47-63Hz
Power factor	> 0.9 under 100~277Vac input with 80~100% load condition (for all output currents)
Inrush current	60A @230Vac
Max input current	800mA @100-277Vac & 100% load
No load Voltage	45-50Vdc
Output current precision	5%
Ripple & noise	3Vp-p
THD	20%@Output Voltage typ.
Turn on delay time	1S
Efficiency	88%@100-277Vac & 100% load (see charts)
Output Voltage	25-40V
Protection	LED Disconnection Protection: Hiccup mode. Protection will trigger when the LED driver is disconnected, no damage will occur to the driver. Short circuit protection: Hiccup mode. Protection will trigger when short circuit and will auto recover after the fault mode is removed.
Operating Temperature	-20˚C to +50˚C

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■ Technical Data(cont.)

Operating Relative Humidity	10%RH to 90%RH
Storage Temperature	-30˚C to +70˚C
Storage Relative humidity	10%RH to 90%RH
Vibration	1.0mm, 10-55Hz, 15 minutes per cycle for each axis
Altitude	Sea level to 2000m
Cooling	Natural Convection Cooling
Lifetime	≥50,000 hours@230Vac, 100% load
MTBF	≥50,000 hours at 25°C at 80% load (MIL-HDBK-217F)
Burn-In	4 hours Burn-In test under full load conditions
Dimensions LxWxH	157x52x32mm 6.2x2.05x1.25in
Weight	235g
Packing	TBD

■ Safety Compliance

Safety Standard	UL8750, cUL CSA C22.2 No. 8750
Dielectric Strength	I/P-OP:3000Vac/5mA/60S
Insulation Resistance	I/P-O/P: 50MΩmin @500Vdc
Leakage Current	The leakage current shall be less than 0.25mA for Class 2 at maximum input voltage
EMC Compliance	FCC Part15 Class B
EMS	EN61000-4-2,3,4,5 EN61547

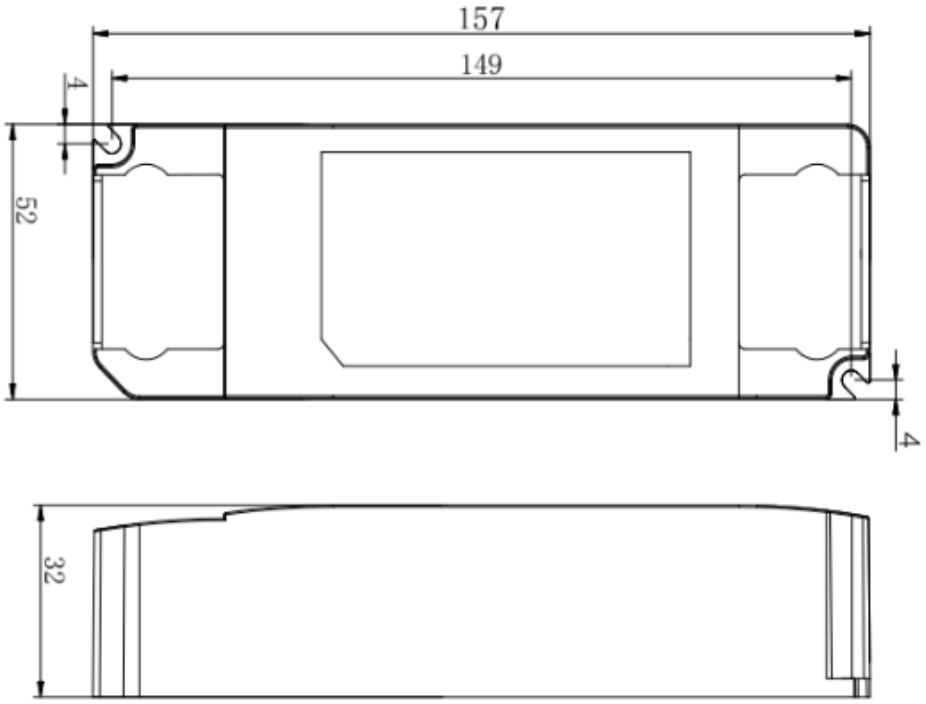
Notes:

1. The parameters above including the power factor, THD, efficiency are all tested under the ambient temperature 25˚C and humidity 50%, AC input 230V and 90% output load.
2. Io is rated output current.

Disclaimer:

Autec Power Systems' (Autec) LED Drivers are Hi-Pot tested during the manufacturing process. Autec assumes no responsibility for secondary Hi-Pot testing at customer location or designated production line(s). Should customer require further Hi-Pot testing, at their own production line, following assembly of the LED Driver into the customer's assembled fixture, Autec requests advance notice. This request must be communicated to Autec in a timely manner and is recommended to be requested at time of issuing each purchase order.

■ Mechanical Diagram



Part Number Scheme

LF W C - 072 S XXX P S

- LF=LED Driver Series
- W=Input Voltage 100-277Vac
- C=Constant Current
- "-"=Non-Dimming
- 072=Output Power Watts
- S=Class II, 2 Wire Input
- P=Plastic case
- XXX=Rated Current
  Ex.) 120=1200mA
  170=1700mA
- S=Single Output

***Product images are for illustrative purposes only and may vary from actual design.**
***Specifications are subject to change without notice. Autec is not responsible for issues arising from errors or omissions.**