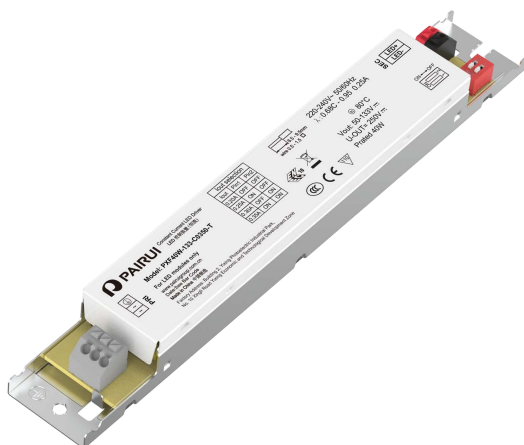


PXF40W V3.0

Small & Efficient Series & constant current LED driver



Product family features

- Drive Mode: Flicker-Free Constant Current
- Technology: 2-Stage PFC + Buck technology
- Input Voltage: 220 to 240VAC (maximum: 198-264 VAC)
- Output Frequency: 47-63Hz
- Output Power: 40Watt Max
- Output Voltage: 50Vdc to 133Vdc
- Output Current: 200mA to 350mA
- Efficiency: Up to 90%
- Warranty: 5years
- Constant Current, Current selection 4 steps, 50mA
- A rated lifetime of 50,000 hours @ Tc = 75 °C
- Non-isolated power
- Safety: GB 19510.1-2009; GB 19510.14-2009; EN 61347-1:2015, EN 61347-2-13: 2014, EN 61347-2-13/A1: 2017; EU 2019/2020
- EMC: GB 17625.1-2012; GB/T 17743-2021; EN 55015; EN 61547; EN 61000-3-2; EN 61000-3-3; EN 61000-4-4; EN 61000-4-5
- Surge: line to line 1KV/2Ω 8/20 us, line to earth 2KV/12Ω 8/20us
- Metal shell. Meet the RoHS directive
- IP20, Compliant for Dry, Damp



Technical data

Electrical Parameter

| Product Model | output Power (W) | Output Voltage (Vdc) | Output Constant Current (mA) | Current Accuracy (typ.) | Max Eff | Certification |
|------------------|------------------|----------------------|------------------------------|-------------------------|---------|--------------------|
| PXF40W-133-C0350 | 40 | 50-133 | 200-350 | ±7.5% | 90% | Erp,CE,ENEC,CCC,CB |

Note: Maximum efficiency measured at 230VAC input, Current set at 350mA full load

Parts list

| Part Number | PXF40W | | | |
|----------------|--------|-------|-------|-------|
| Output Current | 200mA | 250mA | 300mA | 350mA |
| Vf min | 50V | 50V | 50V | 50V |
| Vf max | 133V | 133V | 133V | 114V |
| Pomin | 10.0W | 12.5W | 15.0W | 17.5W |
| Pomax | 26.6W | 33.2W | 39.9W | 39.9W |
| Max U-OUT | 250V | | | |

Product datasheet

Technical data

Electrical Specifications

| | Parameter | Min | Typ | Max | Notes / Conditions |
|------------------|------------------------------------|-------|------------------|--|---|
| Input | Input Voltage | 198V | | 264V | 220, 230, 240Vac Nominal Values |
| | Input Frequency | 47Hz | 50/60Hz | 63Hz | 50/60 Hz Nominal |
| | Standby Power | | | 0.5W | No-load |
| | Leakage Current | | | 450μA | Measured at 230Vac / 60Hz Input, Output Full Load |
| | THD | | | 20% | Measured at 230Vac Input, Output Full Load |
| | Power Factor (PF) | 0.68C | | 0.95 | Measured at 220,230,240Vac Input |
| Parts list | Input AC Current | | | 0.26A | Measured at 230Vac / 50Hz Input, Output Full Load |
| | Inrush Current (Peak) | | 23A / 240us | | Pulse width Measured at 50% Ipeak & 240Vac / 50Hz Input Output Full Load |
| Output | Output Constant Current | -7.5% | Per Table | +7.5% | Per Tables on Page 1 |
| | Current Selection | | 200mA | | Pin1-OFF, Pin2-OFF |
| | | | 250mA | | Pin1-ON, Pin2-OFF |
| | | | 300mA | | Pin1-OFF, Pin2-ON |
| | | | 350mA | | Pin1-ON, Pin2-ON |
| | Output LF Current Ripple (<120 Hz) | -5% | | +5% | 20MHz BW, Measured at 230Vac / 50Hz Input, Output Full Load. Ripple Index is defined as [(Ymax-Ymin)/ Ymean]/2 * 100%. Y may be V or I. |
| | Fulfill TLA | | PstLM<1, SVM<0.4 | | With specified LED load and full load |
| | Line Regulation | -3% | | +3% | Measured at 220, 230, 240Vac / 60Hz Input, Output Full Load |
| | Load Regulation | -4% | | +4% | Measured at 220, 230, 240Vac / 60Hz Input |
| | Start-up Time | | 200ms | 500ms | Measured at 230Vac / 60Hz Input, Output Full Load |
| Output Overshoot | -2% | | +10% | Measured at 220, 230, 240Vac Input, When power on or off | |
| Protection | Output Short Circuit (SCP) | | | | No Damage. Auto recovery after short is removed |
| | Output Over Current (OCP) | | | +10% Io | Constant Current Limiting circuit |
| | Output Over Voltage (OVP) | | | 120% Vo | No Damage. Auto recovery after short is removed |
| | Over Temp Protection(OTP) | 95°C | 100°C | 110°C | lout Foldback at Tc>95°C, lout to off @ Tc~110°C |
| General | Cooling | | Convection | | |
| | MTBF | | 350,000 hours | | Measured at 230Vac input, 100% Load and Ta=25°C(MIL-HDBK-217F) |
| | Life Time | | 50,000 hours | | Measured at 230Vac input, 100% Load and TC=80°C |
| | Product Noise | | < 24dBA | | Class A, not to exceed at 1 meter at any dim level |

| | Parameter | Min | Max | Output Power | Notes / Conditions |
|---------------|------------------------------|-------|--------|--------------|--|
| Environmental | Operating Temperature (Ta) | -20°C | +60°C | | @230Vac. This is a reference range. Tc controls temperature range |
| | Case Temperature (Tc) | -20°C | +80°C | 40W | Measured at location specified on case |
| | Storage Temperature (Ts) | -40°C | +80°C | | Non operating temperature range |
| | Operating Humidity | 5% RH | 85% RH | | Relative Humidity. Non-condensing |
| | Vibration | 5Hz | 55Hz | | 2G, 10 minutes / 1 cycle, period 30 minutes, each along X, Y, Z axis |

Product datasheet

Technical data

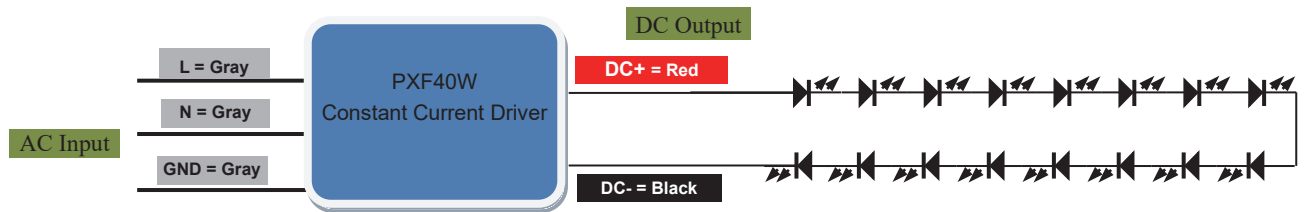
Electrical Specifications

| | Category | Standards / Notes |
|-------------------|-----------------------------|---|
| Safety Compliance | CCC | GB 19510.1-2009; GB 19510.14-2009 |
| | CE | EN 61347-1:2015, EN 61347-2-13:2014, EN 61347-2-13/A1:2017 |
| | ErP 2.0 | EU 2019/2020 |
| | Enclosure / Ground - output | 1.5KVac 3S |
| | Isolation Resistance | Input to PE/Housing: >10MΩ, 500Vdc @ 25°C, 70% RH |
| | FG | The metal case of the driver must be connected to earth ground (FG) in the end-use application |
| EMC Compliance | GB 17625.1-2012 | Emc, limits, harmonic current emission values (equipment input current per phase < 16A) |
| | GB/T 17743-2021 | Radio disturbance characteristics of electrical lighting and similar equipment limits and measurement methods |
| | EN 55015 | Conducted emission Test & Radiated emission Test |
| | EN 61547 | Electromagnetic Immunity Requirements Applies To Lighting Equipment |
| | EN 61000-3-2 | Harmonic current limits |
| | EN 61000-3-3 | Limits on voltage fluctuations and flickering (Rated current <16A) |
| | EN 61000-4-4 | Electrical Fast Transient / Burst-EFT. No Flicker / Restart 2KV |
| | EN 61000-4-5 | Surge Immunity Test: AC Power Line: line to line 1KV/2Ω 8/20us, line to earth 2KV/12Ω 8/20us |

Note: The above test data are in the condition of 25°C ambient temperature, except for the marked temperature

Typical Applications

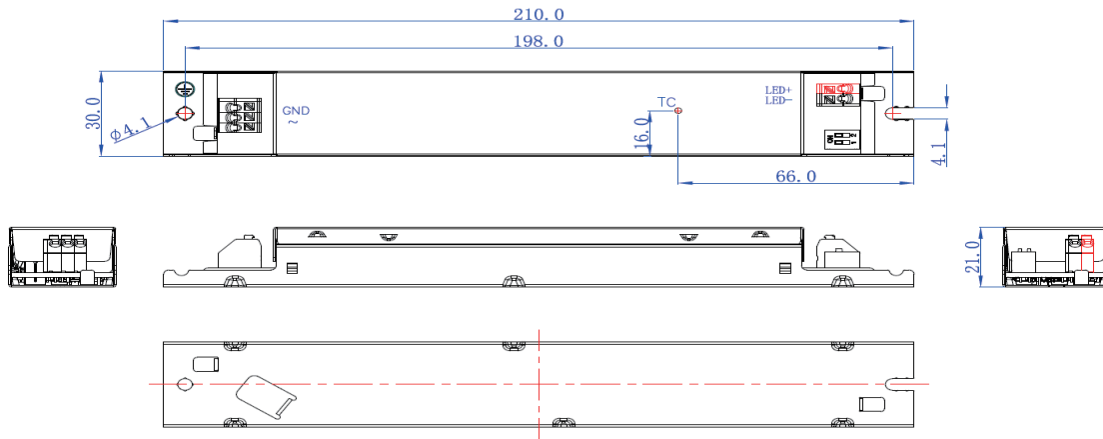
Constant Current Driver



Product datasheet

Appearance information

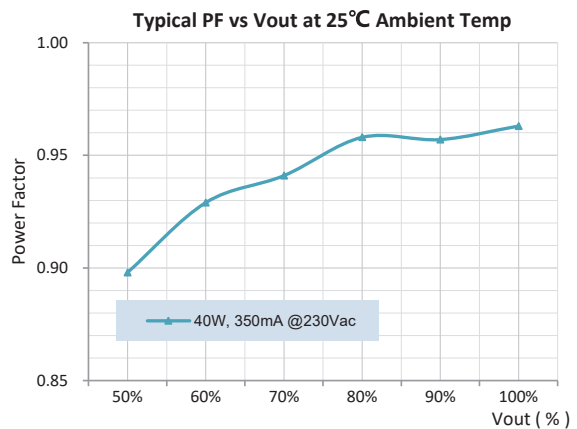
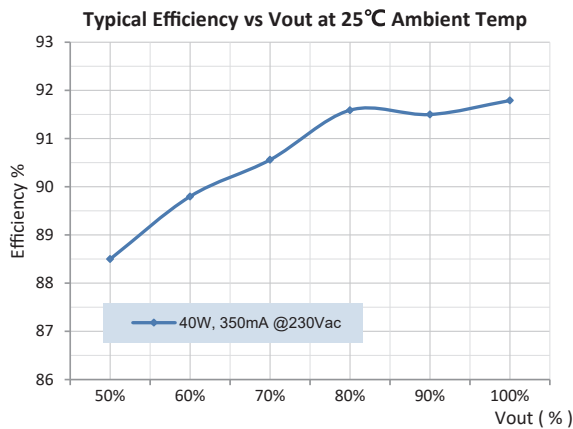
Product Size



Note:

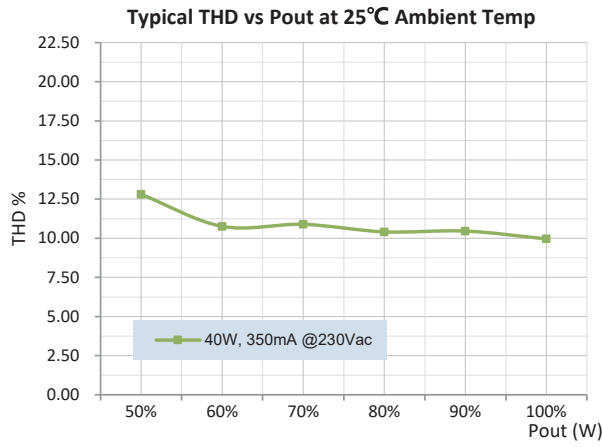
The independent LED drive conforms to the EMC standard. But it is not guaranteed to be qualified when the drive is mounted in the LED fixture
Please forgive us for any discrepancy due to the update of the specifications or the upgrade of the product. If you need the latest information, please contact our marketing department

Characteristic Curve

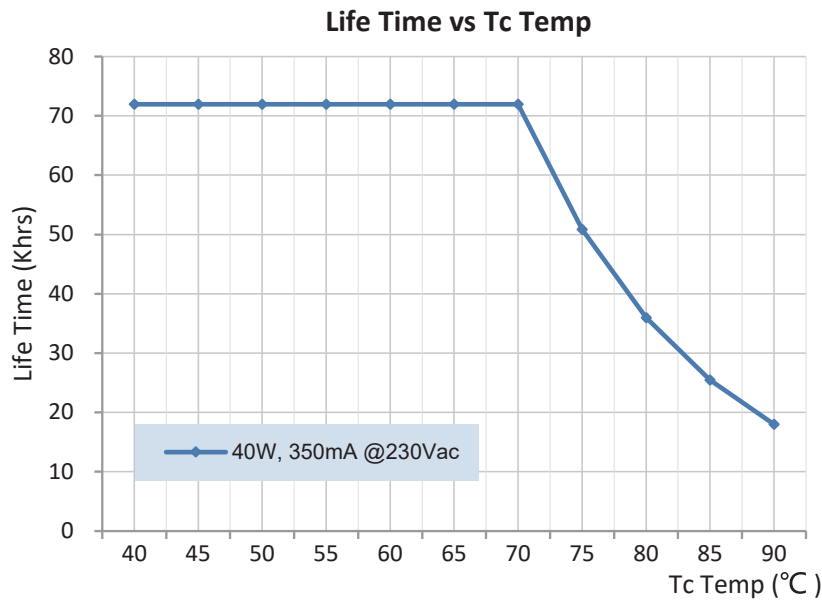


Product datasheet

Characteristic Curve



Lifetime Curve



Installation

AC input wires cross section: 0.75~1.5mm²

DC output wires cross section: 0.75~1.5mm²

This product for indoor use only, it can be installed and fixed in the luminaires, connected with the wire. The length of output line should be less than 2m

Order ID

P/N: PXF40W-114-C0350 (Pin1-ON, Pin2-ON.)

Description: 40W, 114Vdc voltage max, constant current 350mA, constant current mode