

PRODUCT SPECIFICATION

Product Model: PXF75W

Version Number: V3.0

Created	Validated	Approved
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Version	Description of change	Date
V3.0	1.Max U-OUT changed to 300V. 2.Picture and dimensions updated. 3.Safety Compliance updated.	2023.05.31

PXF series drive is a high performance LED drive power supply with miniaturization, constant current output control and non-isolation, high power factor, low THD, low output ripple.

Key Features

- Drive Mode: Flicker-Free Constant Current.
- Technology: 2-Stage PFC + Buck technology.
- Input Voltage: 220 to 240VAC (maximum: 198-264 VAC)
- Frequency: 47-63Hz
- Output Power: 75.6Watt Max.
- Output Voltage: 90Vdc to 216Vdc.
- Output Current: 350mA to 550mA.
- Efficiency: Up to 94%.
- Warranty: 5 years.

Special Features

- Constant Current, Current selection 4 steps.
- A rated lifetime of 50,000 hours @ Tc = 80 °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.

Main Electrical Specification

No.	Part Number	Output Power	Output Voltage	Output Constant Current	Current Accuracy	Max. Eff.	ErP	CE	ENEC	CCC	CB
1	PXF75W-216-C0550-F	75.6W	90-216Vdc	350-550mA	±7.5%	94%	Yes	Yes	Yes	Yes	Yes

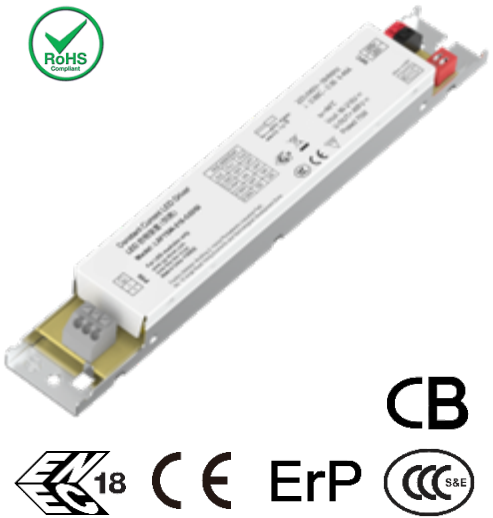
Note:

- Maximum efficiency measured at 230VAC input, Current set at 350mA full load.

Input Specifications

Parameter	Min.	Typ.	Max.	Notes /Conditions
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Enclosure



Size \ Unit	Inch	Millimeter
Case Length	82.68	210.0
Case Width	1.18	30.0
Case Height	0.83	21.0
Mounting Length	7.80	198.0

Input Voltage	198Vac	---	264Vac	220, 230, 240Vac Nominal Values
Input Frequency	47Hz	50/60Hz	63Hz	50/60 Hz Nominal
Standby Power			0.5W	No-load.
Leakage Current	---	---	450 μ A	Measured at 230Vac / 60Hz Input, Output Full Load.
THD	---	---	20%	Measured at 230Vac Input, Output Full Load
Power Factor (PF)	0.88C	---	0.95	Measured at 220,230,240Vac Input.

Parts list

Parameter	Min.	Typ.	Max.	Notes /Conditions
Input AC Current	---	---	0.49A	Measured at 230Vac / 50Hz Input, Output Full Load.
Inrush Current (Peak)	---	55A / 178 μ s	---	Pulse width Measured at 50% Ipeak & 240Vac / 50Hz Input, Output Full Load.

Output Specifications

Parameter	Min.	Typ.	Max.	Notes /Conditions
Output Constant Current	-7.5%	Per Table	+7.5%	Per Tables on Page 1
Current selection	---	350mA	---	Pin1-OFF, Pin2-OFF.
	---	400mA	---	Pin1-ON, Pin2-OFF.
	---	500mA	---	Pin1-OFF, Pin2-ON.
	---	550mA	---	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	---	150ms	500ms	Measured at 230Vac / 60Hz Input, Output Full Load
Output Overshoot	-2%	---	+10%	Measured at 220, 230, 240Vac Input, When power on or off

Parts list

Part Number	PXF75W			
Output Current	350mA	400mA	500mA	550mA
Vf min	90Vdc	90Vdc	90Vdc	90Vdc
Vf max	216Vdc	187Vdc	150Vdc	136Vdc
Pomin	31.5W	36W	45W	49.5W
Pomax	75.6W	74.8W	75W	74.8W
Max U-OUT	300Vdc			

Protection Specifications

Parameter	Min.	Typ.	Max.	Notes /Conditions
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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 Specifications

Parameter	Typ.	Notes /Conditions
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	< 24db	Class A, Not to exceed at 1 meter at any dim level.

Environmental Specifications

Parameter	Min.	Typ.	Max.	Output Power	Notes /Conditions
Operating Temperature (Ta)	-20 °C	---	+60°C	---	@230Vac. This is a reference range. Tc controls temperature range.
Case Temperature (Tc)	-20 °C	---	+90°C	75W	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	5 Hz	---	55 Hz	---	2G, 10 minutes / 1 cycle, period 30 minutes, each along X, Y, Z axis.

Safety Compliance

Safety Category	Standards / Notes
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.

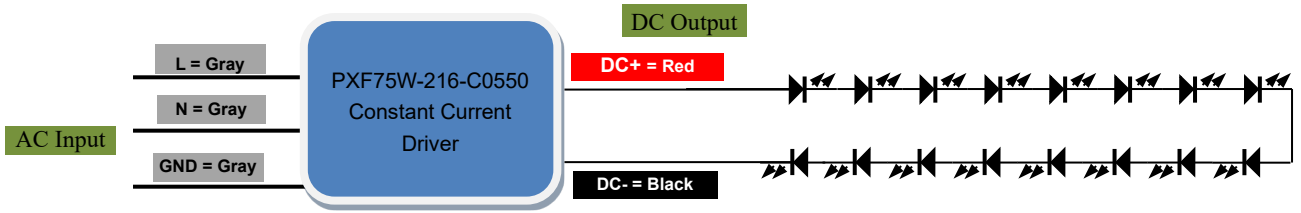
EMC Compliance

EMI Category	Standards
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.

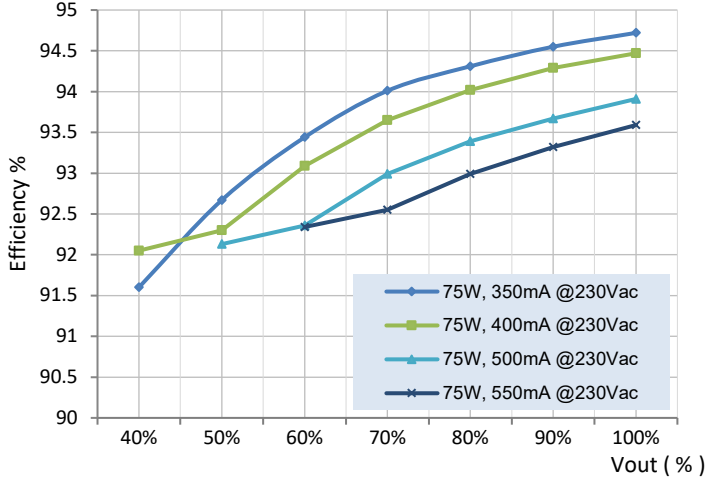
Typical Applications

- Constant Current Driver

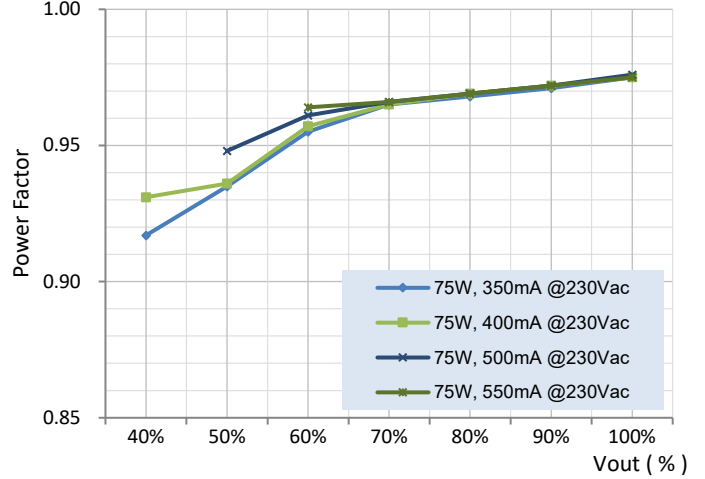


Characteristic Curve

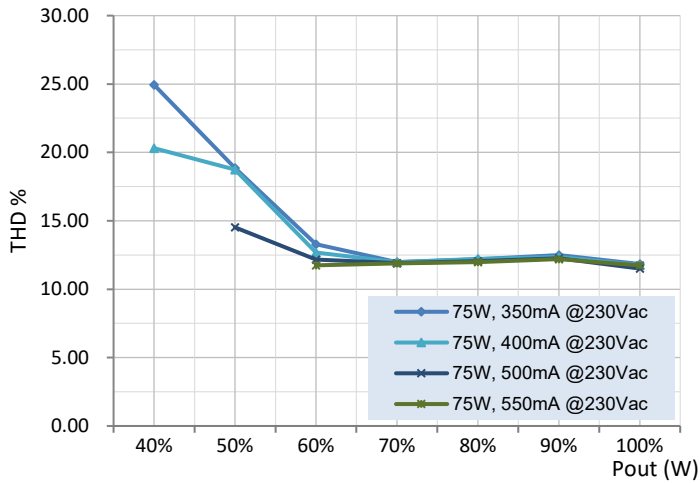
Typical Efficiency vs Vout at 25°C Ambient Temp



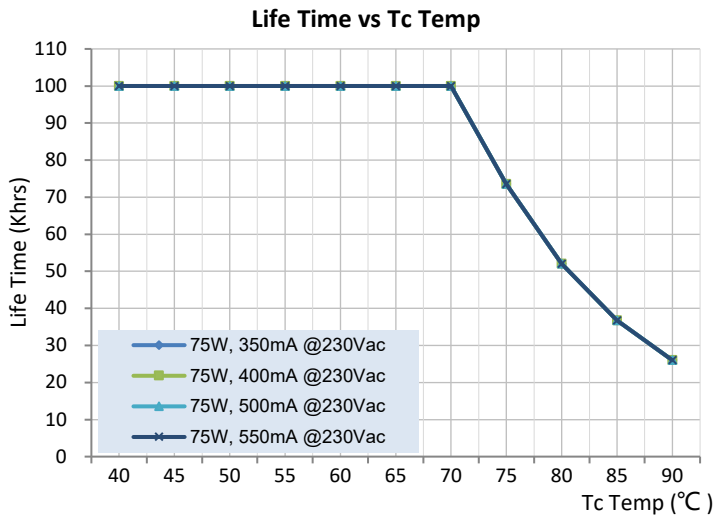
Typical PF vs Vout at 25°C Ambient Temp



Typical THD vs Pout at 25°C Ambient Temp



Lifetime Curve



Installation

- AC input wires cross section: 0.75~1.5mm².
- DC output wires cross section: 0.75~1.5mm².

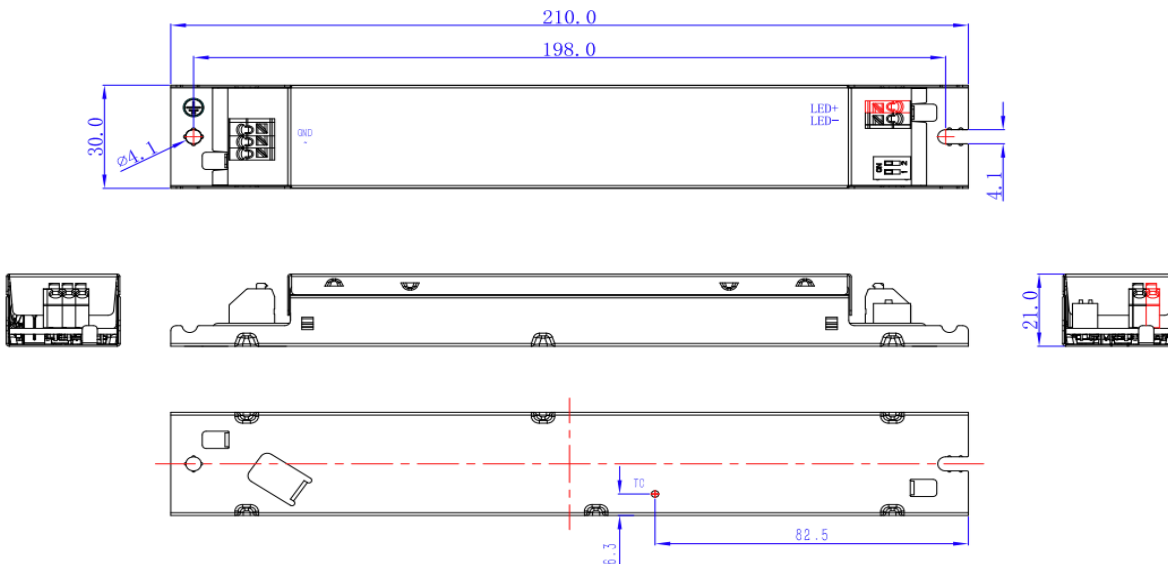
This product for indoor use only, it can be installed and fixed in the luminaires, connected with the wire. The length of output line should be less than 2m.

Order ID

P/N: PXF75W-216-C0550-F (Pin1-ON, Pin2-ON.)

Description: 75W, 216Vdc voltage max, constant current 350mA, constant current mode.

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.