

19W —PXD19W V3.0

Small & Efficient Series & constant current LED driver

Product family features



- Drive Mode: Flicker-Free Constant Current
- Technology: Boost + Flyback Technology
- Input Voltage: 220 to 240Vac (maximum: 198~264Vac)
220 to 240 Vdc (maximum: 176 to 280Vdc)
- Output Frequency: 47-63Hz
- Output Power: 18.9Watt Max
- Output Voltage: 27Vdc to 54Vdc
- Output Current: 200mA to 350mA
- Efficiency: Up to 84%
- Warranty: 5years
- Constant current without stroboscopic
- A rated lifetime of 50,000 hours @ Tc = 75 °C
- Primary side and secondary side are isolated safely, AC input DC output
- Surge: line to line 1KV/2Ω 8/20 us, line to earth 2KV/12Ω 8/20us
- Accord to RoHS Standard
- IP20, Compliant for Dry, Damp
- Meet Class I and Class II lighting fixtures
- Programmed controlled aging at Ta = 50 °C



Technical data

Electrical Parameter

Product Model	Max. output Power (W)	Output Voltage (Vdc)	Maximum Output Constant Current (mA)	Current Accuracy (typ.)	Max Eff
PXD19W-54-C0350-F	18.9	27-54	350	±7.5%	84%

Product datasheet

Technical data

Electrical Specifications

	Parameter	Min	Typ	Max	Notes / Conditions
Input	Input Voltage	198V 176V		264V 280V	220, 230, 240Vdc Nominal Values
	Input Frequency	47Hz	50/60Hz	63Hz	50/60Hz Nominal
	Input AC Current			0.13A	Measured at 230Vac / 50Hz Input, Output Full Load
	No-load power consumption			0.5W	Unloaded time
	Startup surge current (Peak)		14A / 194uS		50% Ipeak & 240Vac / 50Hz Input, Output Full Load
	Leakage Current			450uA	Measured at 230Vac / 60Hz Input, Output Full Load
	THD			20%	Measured at 230Vac Input, Output Full Load
	Power Factor (PF)	0.6C		0.9C	Measured at 230Vac Input, Output Full Load
Output	Output Constant Current	Per Table	Per Table	Per Table	Per Tables on Page 1
	Current Selection	-7.5%	350mA 300mA 250mA 200mA	+7.5%	Pin1-ON, Pin2-ON Pin1-OFF, Pin2-ON Pin1-ON, Pin2-OFF Pin1-OFF, Pin2-OFF
	Output Power			Per Table	Per Tables on Page 1
	Ripple wave (<120Hz)		5%	10%	20MHz BW, Test end parallel 0.1uF & 10uF capacitance Ripple Index is defined as [(Ymax-Ymin)/Ymean] / 2 * 100%. Y be V or I
	Fulfill TLA		PstLM<1, SVM<0.4		
	Line Regulation	-5%		+5%	Measured at 230Vac / 50Hz Input time measurement
	Load Regulation	-5%		+5%	Measured at 230Vac / 50Hz Input time measurement
	Start-up Time		100ms	500ms	Measured at 230Vac / 50Hz Input time measurement
	Output Overshoot	-2%		+10%	Measured at 230Vac / 50Hz Input, When power on or off
	Protection	Output Short Circuit (SCP)			
Output Over Current (OCP)				+10% Io	Constant Current Limiting circuit
Output Over Voltage (OVP)				120% Vo	No Damage. Auto recovery after short is removed
General	Cooling		Convection		
	MTBF		410,000 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=75°C
	Product Noise		< 24dBA		Class A, not to exceed at 1 meter at any dim level
Environmental	Operating Temperature (Ta)	-20°C		+50°C	@230Vac. This is a reference range. Tc controls temperature range
	Case Temperature (Tc)	-20°C		+75°C	Measured at location specified on case
	Storage Temperature (Ts)	-25°C		+85°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

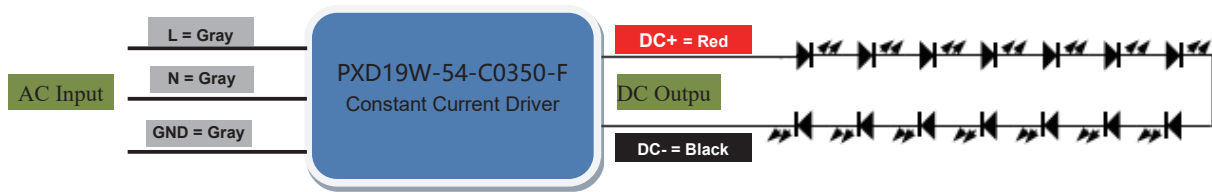
Technical data

Electrical Specifications

	Category	Standards / Notes	
Safety Compliance	Withstand voltage value	Input-output 3750Vac	
	Enclosure - Output	1.5KVac	
	Enclosure - input	1.5KVac	
	Insulation resistance	Input-output >10MΩ, 500Vdc @ 25°C, 70% RH	
	Ground connection (PE)	In end-use applications, the metal housing of the driver must be connected to ground (PE)	
EMC Compliance	EMI	CCC	GB19510.14-2009, GB19510.1-2009
		CE	EN55015:2013+A1:2015, EN 61000-3-2:2014, EN 61000-3-3:2013. RED 2014/53/EU
	EMS	EN 61000-4-3	Radio-Frequency Electromagnetic Field Susceptibility Test-RS
		EN 61000-4-4	Electrical Fast Transient / Burst-EFT
		EN 61000-4-5	Surge Immunity Test: AC Power Line: line to line 1.0 KV/2Ω 8/20 us line to earth (PE) 2.0 KV/12Ω 8/20 us
		EN 61000-4-6	Conducted Radio Frequency Disturbances Test-CS
		EN 61547	Electromagnetic Immunity Requirements Applies to Lighting Equipment

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

Typical Applications



Order ID

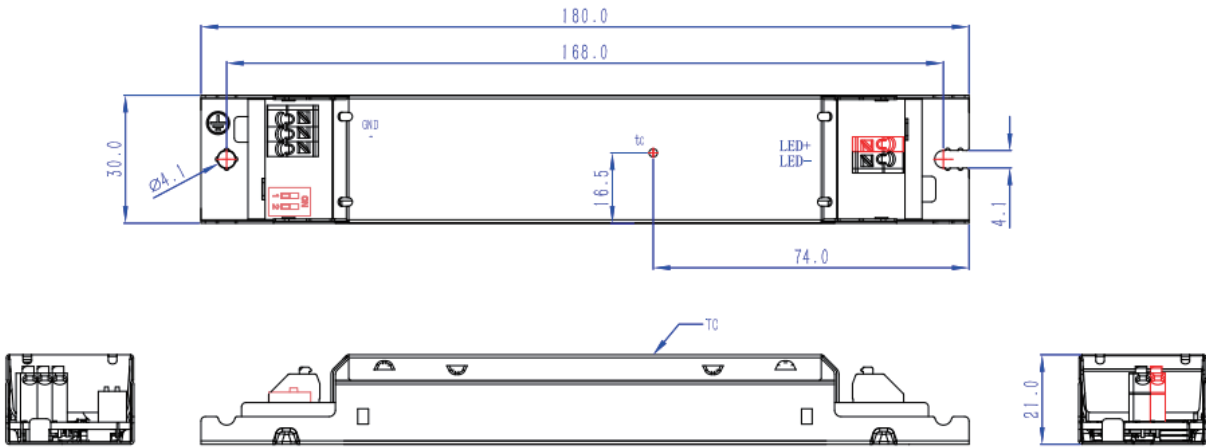
P/N: PXD19W-54-C0350-F

Description: 18.9W, Maximum 54Vdc, constant current 350mA output.

Product datasheet

Appearance information

Product Size

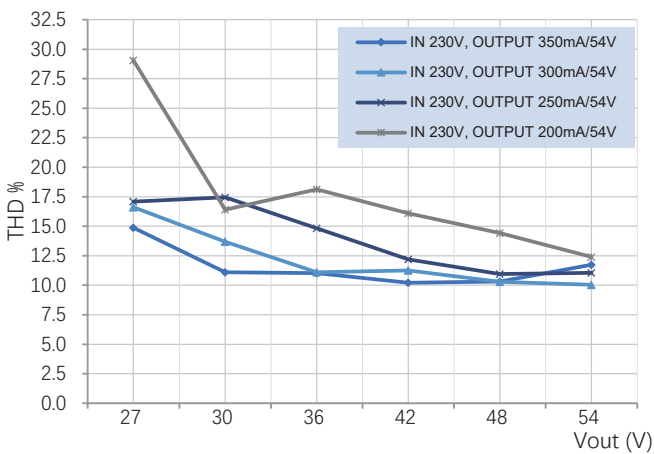


Note:

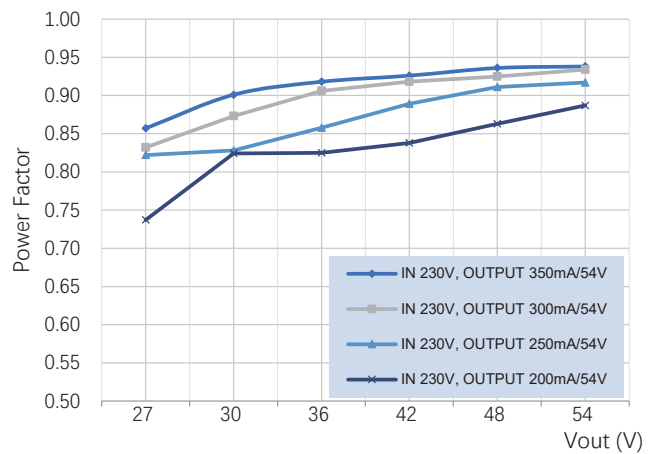
The independent LED drive conforms to the EMC standard. But it is not guaranteed to be qualified when the drive is mounted in the LED fixture
 Please forgive us for any discrepancy due to the update of the specifications or the upgrade of the product. If you need the latest information, please contact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

Characteristic Curve

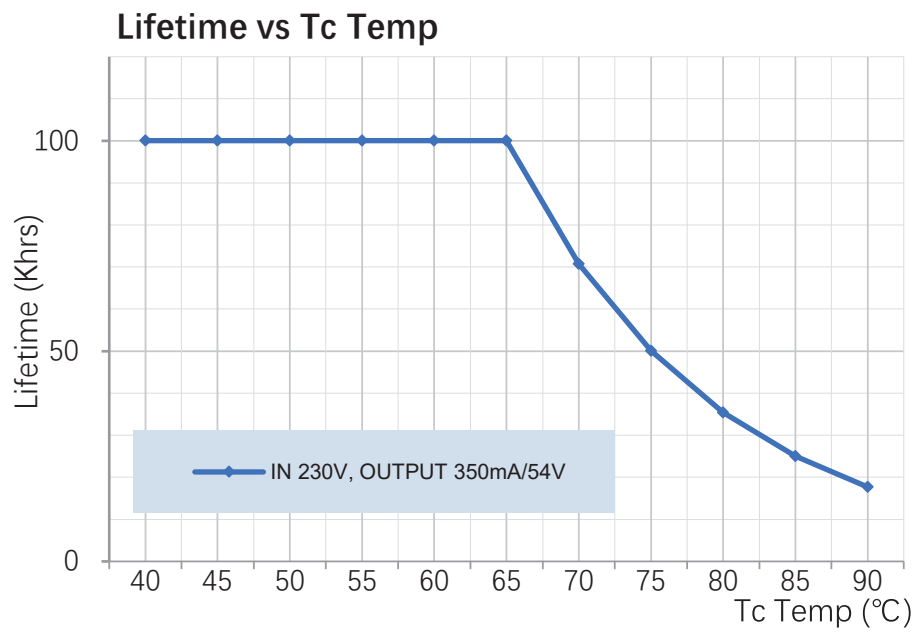
Typical THD vs Vout at 25°C Ambient Temp



Typical PF vs Vout at 25°C Ambient Temp



Lifetime Curve



Installation

AC input wires cross section : 0.75-1.52

DC output wires cross section: 0.50-1.52

Note: The max length of DC output line is less than 2 m