

PXD60W-85-C0700

Constant current LED driver(Isolated)



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: 59.5Watt Max
- Output Voltage: 47Vdc to 85Vdc
- Output Voltage: 550mA to 700mA
- Efficiency: Up to 91%
- Warranty: 5years
- Constant current with Flicker-Free
- A rated lifetime of 50,000 hours @ Tc = 80 °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
- Metal shell. Accord to RoHS Standard
- IP20, Compliant for Dry, Damp
- Meet Class I and Class II lighting fixtures
- Programmed controlled aging at Ta = 50 °C,
The ambient temperature of 60°C can also work
- The 380V voltage input can work for half an hour

Technical data

Electrical Parameter

Product Modle	Max. output Power (W)	Output Voltage (Vdc)	Maximum Output Constant Current (mA)	Current Accuracy (typ.)	Max Eff
PXD60W-85-C0700	59.5	47-85	550/600/650/700	±5%	91%
PXD60W-85-C0700-A	59.5	47-85	350/500/600/700	±5%	91%

Product datasheet

Technical data

Electrical Specifications

	Parameter	Min	Typ	Max	Notes / Conditions
Input	Input Voltage	198V 176V		264V 280V	220, 230, 240Vac Nominal Values
	Input Frequency	47Hz	50/60Hz	63Hz	50/60Hz Nominal
	Input AC Current			0.3A	Measured at 230Vac / 50Hz Input, Output Full Load
	No-load power consumption			0.63W	Unloaded time
	Startup surge current (Peak)		30A / 350uS		50% Ipeak & 240Vac / 50Hz Input, Output Full Load
	Leakage Current			2mA	Measured at 230Vac / 60Hz Input, Output Full Load
	THD			20%	Measured at 230Vac Input, Output Full Load
	Power Factor (PF)	0.95			Measured at 230Vac Input, Output Full Load
Output	Output Constant Current	Per Table	Per Table	Per Table	Per Tables on Page 1
	Current Selection	-5%	700mA	+5%	Pin1-ON, Pin2-ON
			650mA		Pin1-OFF, Pin2-ON
			600mA		Pin1-ON, Pin2-OFF
			550mA		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
	Fulfill TLA		PstLM<1, SVM<0.4		Index is defined as [(Ymax-Ymin)/Ymean] /2* 100%. Y be V or I
	Line Regulation	-5%		+5%	Fully loaded output, measured at 198 Vac、230 Vac、264Vac /50Hz input
	Load Regulation	-5%		+5%	Load 27-54 Vdc output, measured at 230Vac / 50Hz input
	Start-up Time		60ms	500ms	Fully loaded output, measured at 230Vac / 50Hz input
Protection	Output Overshoot	-2%		+10%	Measured at 230Vac / 50Hz Input, When power on or off
	Output Short Circuit (SCP)				No Damage. Auto recovery after short is removed
	Output Over Current (OCP)			+10% Io	Constant Current Limiting circuit
General	Output Over Voltage (OVP)			120% Vo	No Damage. Auto recovery after short is removed
	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=85°C
Environmental	Product Noise		< 24dBA		Class A, not to exceed at 1 meter at any dim level
	Operating Temperature (Ta)	-20°C		+50°C	@230Vac. This is a reference range. Tc controls temperature range, The ambient temperature of 60°C can also work
	Case Temperature (Tc)			+85°C	Measured at location specified on case
	Storage Temperature (Ts)	-25°C		+85°C	Non operating temperature range
	Operating Humidity	5% RH		95% RH	Relative Humidity. Non-condensing
	Vibration	5Hz		55Hz	2G, 10 minutes / 1 cycle, period 30 minutes, each along X, Y, Z axis

Product datasheet

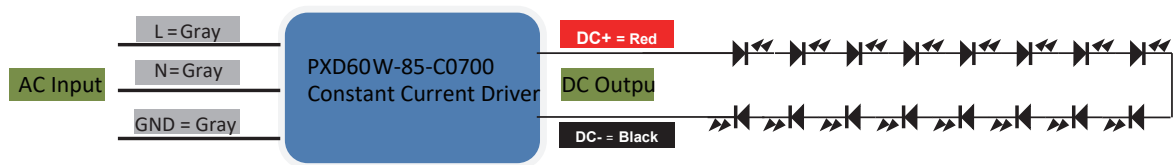
Technical data

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



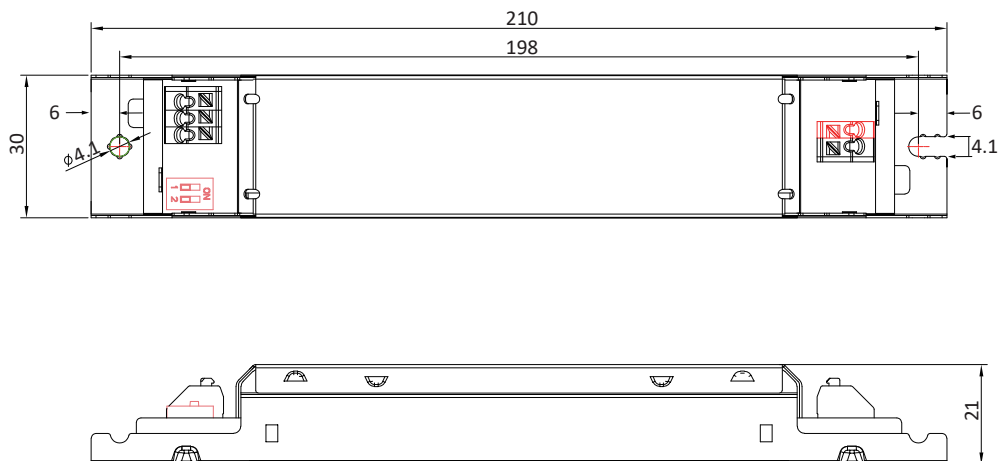
Order ID

P/N: PXD60W-85-C0700
Description: 60W , Maximum 85Vdc, constant current 700mA output

Product datasheet

Appearance information

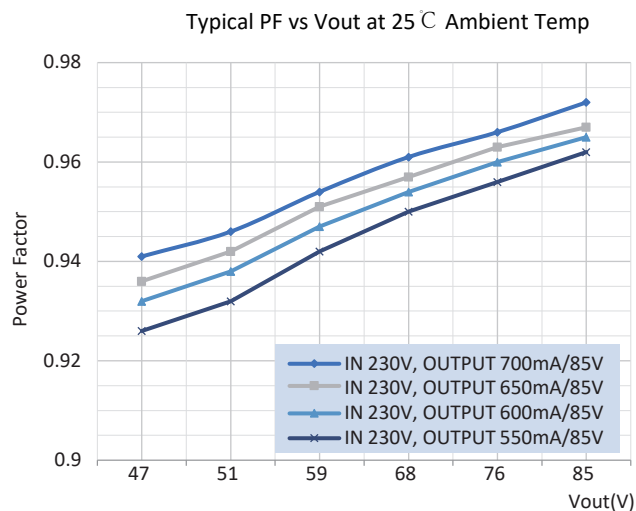
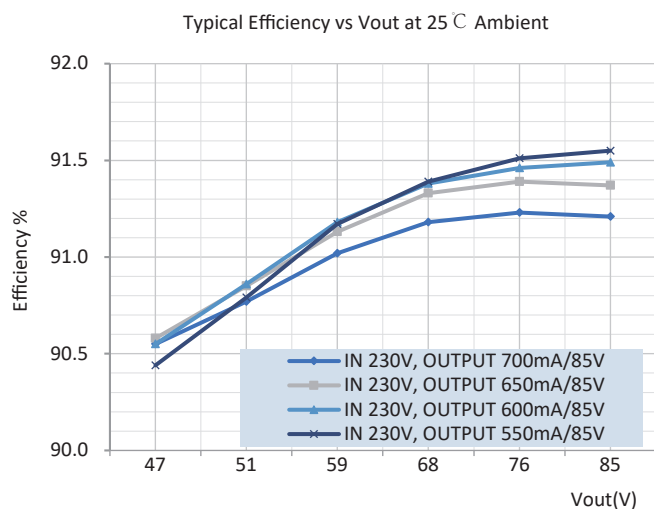
Product Size



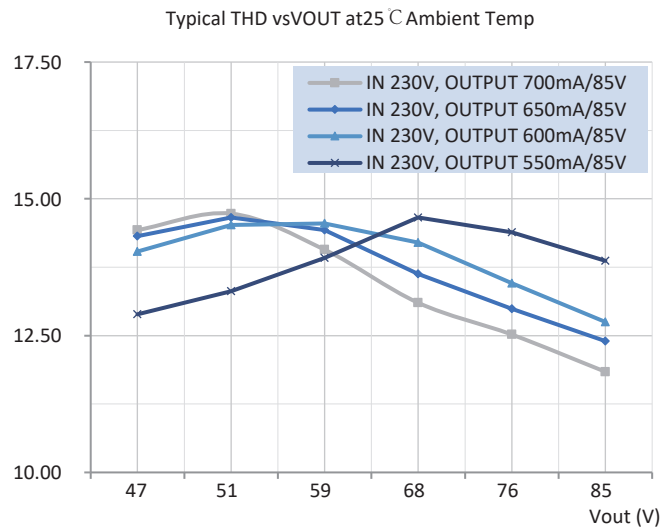
Note:

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

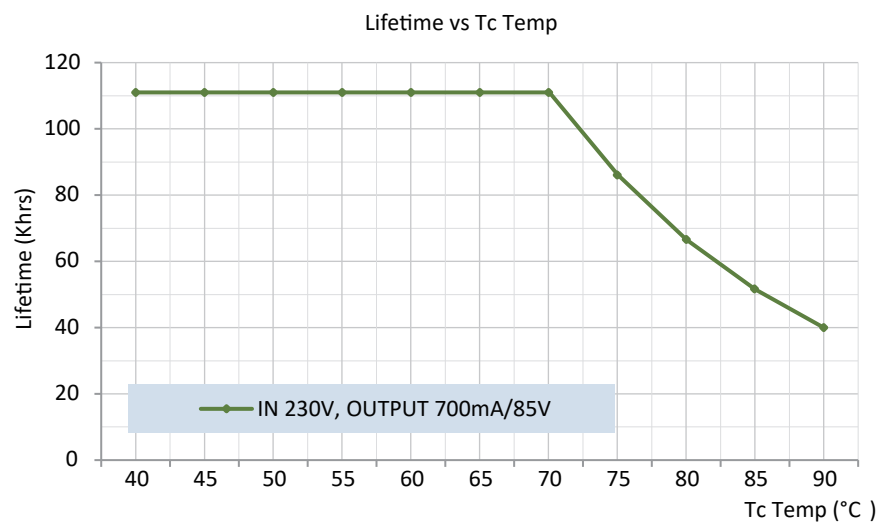
Characteristic Curve



Characteristic Curve



Lifetime Curve



PXD60W			
Ta	40°C	50°C	60°C
Tc	72°C	82°C	92°C

Installation

AC input wires cross section : 0.75-1.5mm²
DC output wires cross section : 0.50-1.5mm²
Note: The max length of DC output line is less than 2 m