

180 Watt — PXV180W-24A V3.0

Constant voltage LED driver



Product family features

- Drive Mode: Constant Voltage output
- Technology: Active PFC Corrected LLC Mode
- Input Voltage: 220 to 240Vac
- Output Power: 180Watt Max
- Output Voltage: 24Vdc
- Efficiency: Up to 91%
- Warranty: 3 years
- Safety isolation between primary and secondary
- A rated lifetime of 30,000 hours @ Tc = 90 °C
- Surge: AC Power Line: line to line 1KV, 8/20us
- Meet the RoHS directive
- Suitable for Class I/II luminaries, build-in & independent installation



Technical data

Electrical data

Product Modle	Input Voltage	Output Voltage Typ	Current Accuracy (typ.)	Power Factor	Output Power	Max Eff
PXV180W-24A	220-240V	24V	±3%	0.95	180W	91%

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
	Maximum Input Voltage			280V	2h maximum, unit might not operate in this abnormal condition
	Input AC Current		0.90A		Measured at 230Vac 50/60Hz Input, Output Full Load
	THD			15%	Measured at 230Vac 50/60Hz Input, Output Full Load
	Power Factor (PF)		0.95		Measured at 230Vac 50/60Hz Input, Output Full Load
	Efficiency		91%		Typical, Full load, 230Vac, 50Hz, see graphs
	Power Loss in Standby			TBD	230Vac, 50Hz typical
	Inrush Current			148A _{pk} 340 _{us}	
	Protections Class		II		Suitable for safety class I and II luminaires
	Max ECG no. on Circuit Breaker 10A		B:3, C:5		
	Max ECG no. on Circuit Breaker 16Ar		B:5, C:9		
	Max ECG no. on Circuit Breaker 25A		B:8, C:14		
Output	DC Output Voltage	23.28V	24.0V	24.72V	
	Output Constant Current	0		7500mA	
	Output Power			180W	
	Start-up Time		1000ms		Measured at 230Vac / 50Hz Input, Output Full Load
	Galvanic isolation		SELV		
	U-OUT		25V		
Environmental	Case Temperature (T _c) -20 °C			+90 °C	Measured at location specified on case
	Operating Temperature (T _a) -20 °C			+50 °C	This is a reference range T _c controls temperature range
	Storage Temperature (T _s) -40 °C			+85 °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

	Parameter	Parameter	Notes /Conditions
General	Cooling	Convection	
	Environmental Rating	Indoor and Build-in	
	IP Protections Class	IP20	
	Life Time	30,000 hours	Measured at 230Vac input, 100% Load and T _c =81°C (MIL-HDBK-217F)

Product datasheet

Technical data

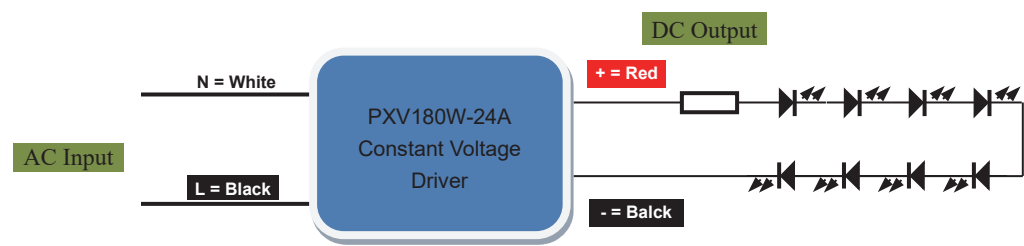
Electrical Specifications

	Category	Standards / Notes
Safety Compliance	CCC	GB19510.14-2009, GB19510.1-2009
	CE	EN 61347-1:2007+A1:2010+A2:2012, EN61347-2-13:2014, EN 62493:15
	Withstand Voltage	Input to Output: 3750Vac
	Isolation Resistance	Input to Output: >10MΩ, 500Vdc @ 25°C, 70% RH
C Compliance	EMI	
	CCC	GB17743-2007, GB17625.1-2012
	CE	EN55015:2013+A1:2015, EN 61000-3-2:2014, EN 61000-3-3:2013
	EN 61000-4-2	Electrostatic Discharge (ESD): 8KV air discharge, 4KV contact discharge
	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 1KV
	EN 61000-4-6	Conducted Radio Frequency Disturbances Test-CS
	EN 61000-4-8	Power Frequency Magnetic Field Test
	EN 61000-4-11	Voltage Dips
	EN 61547	Electromagnetic Immunity Requirements Applies To Lighting Equipment

Typical Applications

LED forward voltage: VF = 3.0V, LED forward current IF =5000 mA

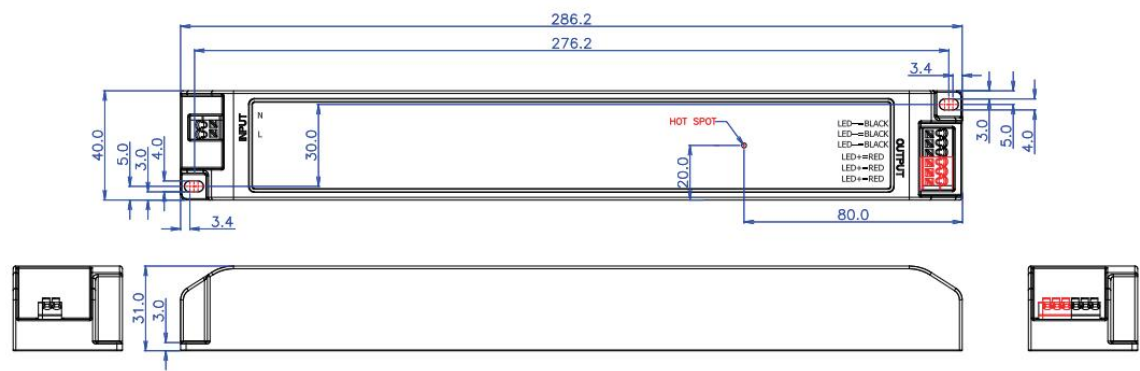
Constant Voltage Driver



Product datasheet

Appearance information

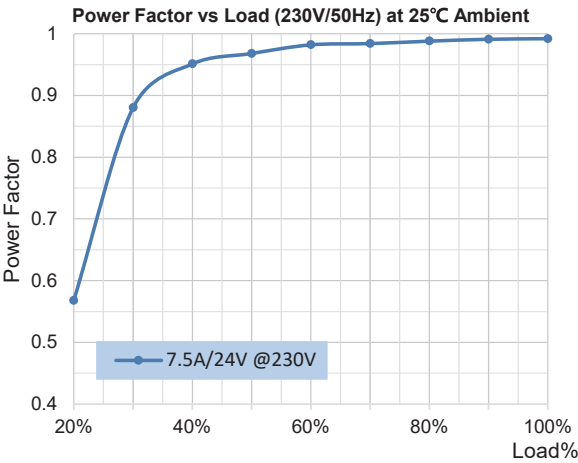
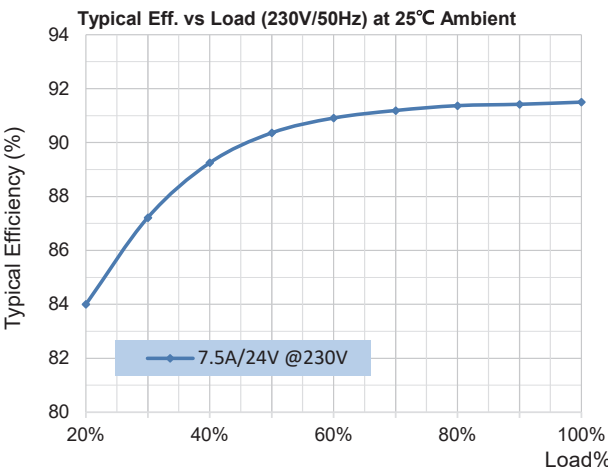
Product Size



Note:

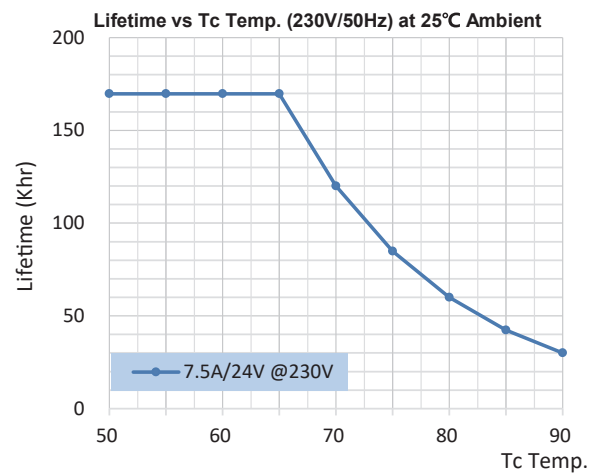
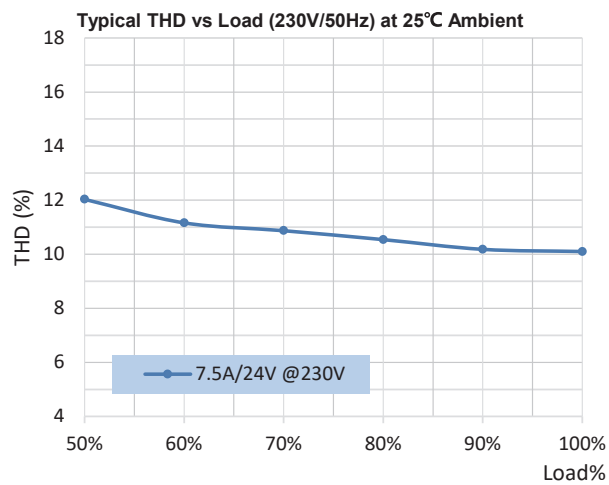
The independent LED drive conforms to the EMC standard. But it is not guaranteed to be qualified when the drive is mounted in the LED Fixture
Please forgive us for any discrepancy due to the update of the specifications or the upgrade of the product. If you need the latest information, please contact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

Characteristic Curve



Product datasheet

Characteristic Curve



Installation

AC input wires cross section: 0.75~1.5mm²
DC output wires cross section: 0.75~1.5mm²
Wires peeling length: input 5mm; output 5mm
Load wires length: 3m verified
Cable recommendation: H05VVH2-F 2*0.75mm²; H05VVH2-F 2*1.0mm²; H03VVH2-F 2*0.75mm²

Remarks

Output short circuit protection: auto reversible when fault removed
Output overload protection: auto reversible when fault removed

Order ID

P/N: PXV180W- 24A
Description: 180W, 24Vdc Constant Voltage