

120 Watt — PXV120W-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: 120Watt Max
- Output Voltage: 24Vdc
- Efficiency: Up to 89%
- 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
PXV120W-24A	220-240V	24V	±3%	0.95	120W	89%

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		0.64A		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		89%		Typical, Full load, 230Vac, 50Hz, see graphs
	Power Loss in Standby			TBD	230Vac, 50Hz typical
	Inrush Current			40Apk 760us	
	Protections Class		II		Suitable for safety class I and II luminaires
	Max ECG no. on Circuit Breaker 10A		B:5, C:8		
	Max ECG no. on Circuit Breaker 16Ar		B:8, C:12		
	Max ECG no. on Circuit Breaker 25A		B:12, C:20		
Output	DC Output Voltage	23.28V	24.0V	24.72V	
	Output Constant Current	0		5000mA	
	Output Power			120W	
	Start-up Time		1000ms		Measured at 120-277 Vac Input, Output Full Load
	Galvanic isolation		SELV		
	U-OUT		24.72V		
Environmental	Case Temperature (Tc) -20 °C			+90 °C	Measured at location specified on case
	Operating Temperature (Ta) -20 °C			+50 °C	This is a reference range Tc controls temperature range
	Storage Temperature (Ts) -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 Tc=81°C (MIL-HDBK-217F)

Product datasheet

Technical data

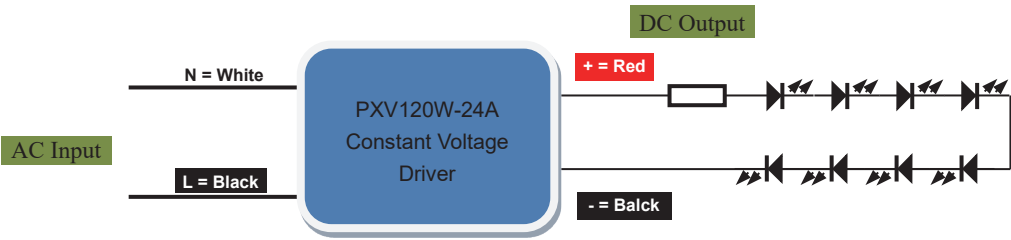
Electrical Specifications

	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

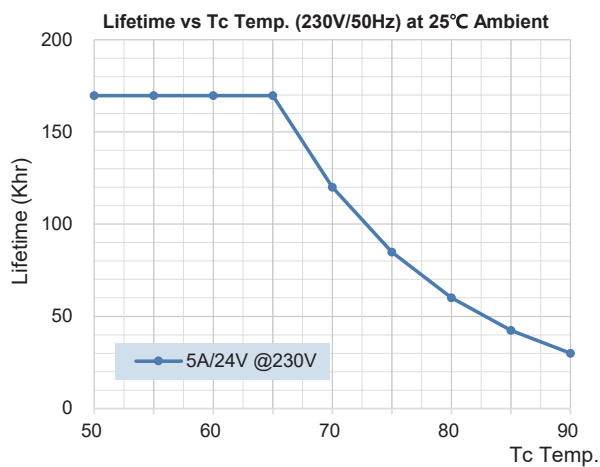
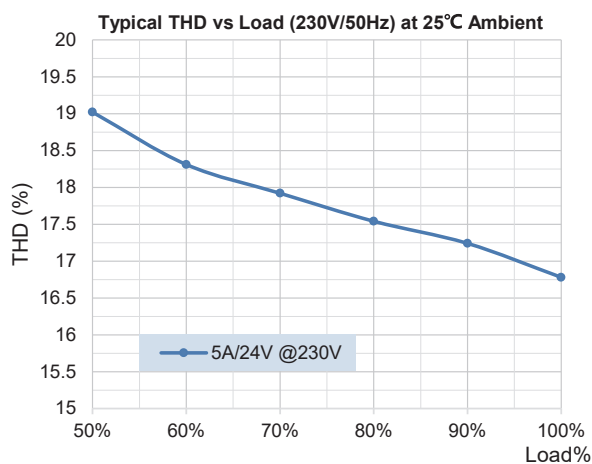
Typical Applications

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

Constant Voltage Driver



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: PXV120W- 24A
Description: 120W, 24Vdc Constant Voltage