

60W Constant Voltage PWM Output KNX LED Driver **PWM-60-KN** series







Features

- Constant Voltage PWM style output with user changeable frequency up to 4KHz design compliant IEEE1789-2015 and EU Ecodesign SVM requirement
- Min. dimming level 0.01%
- Plastic housing with class II design
- Standby power consumption<0.5W
- Integrated KNX control protocol
- No need KNX-DALI gateway
- Typical lifetime>50000 hours
- 5 years warranty

Description

Applications

- LED strip lighting
- Indoor LED lighting
- LED decorative lighting
- LED architecture lighting

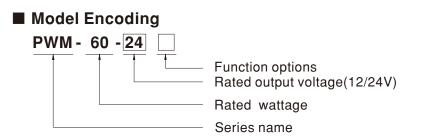
GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

PWM KN series is a 60W AC/DC LED driver featuring the constant voltage mode with PWM style output, which is able to maintain the colour temperature and the brightness homogeneity when driving all kinds of LED strips and constant voltage LED bulbs. The built-in KNX interface is to avoid using the complicated KNX-DALI gateway.

PWM KN operates from 90~305VAC and offers two models with output voltage 12V and 24V. Thanks to the high efficiency up to 89%, with the fanless design, the entire series is able to operate for $-35^{\circ}C \sim +90^{\circ}C$ case temperature under free air convection.

The minimal dimming level low to 0.01% is suitable for low light level applications e.g. cinema. The output frequency is changeable up to 4KHz complaint IEEE1789-2015 no risk requirement and EU Ecodesign stroboscopic visibility measure(SVM) requirement providing a great solution for health concern due to light fickering.



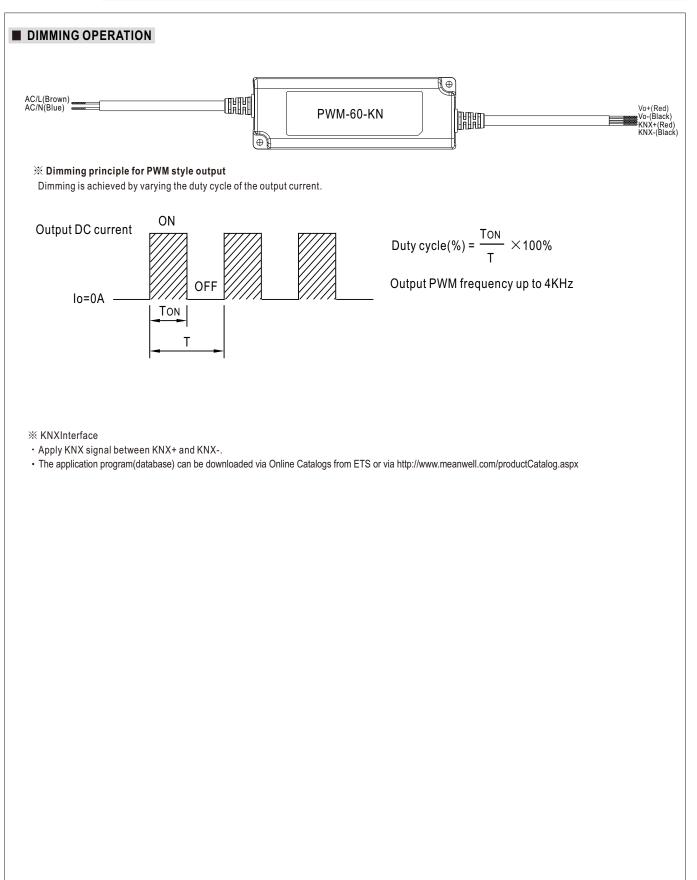
Туре	Function	Note
KN	KNX control technology	In stock
KNBST	NBST KNX control technology with BST14 connector	



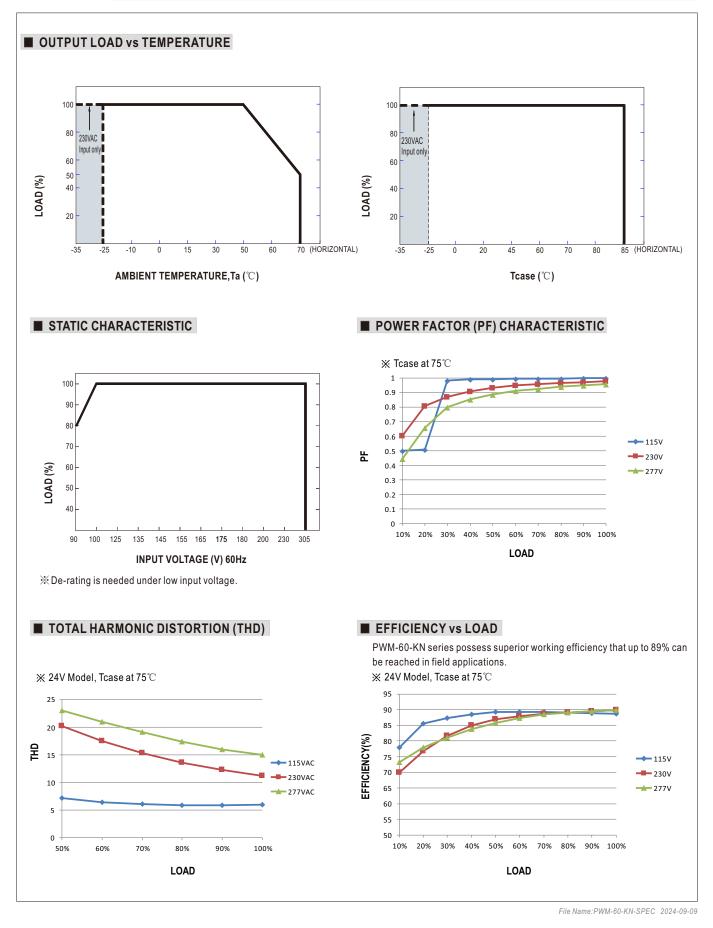
SPECIFICATION

SPECIFIC	ATION			
MODEL		PWM-60-12 🗆	PWM-60-24	
-	DC VOLTAGE	12V	24V	
	RATED CURRENT	5A	2.5A	
	RATED POWER	60W	60W	
	DIMMING RANGE	0~100%		
	PWM FREQUENCY (Typ.)	200~4000Hz user changable via ETS		
	SETUP, RISE TIME Note.2	500ms, 80ms/ 115AC or 230VAC		
	HOLD UP TIME (Typ.)	16ms/115VAC or 230VAC		
INPUT	VOLTAGE RANGE Note.3	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	PF>0.97/115VAC, PF>0.95/230VAC, PF>0.92/277VAC @ full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)		
	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧60%/115VAC, 230VAC; @load≧75' (Please refer to "TOTAL HARMONIC DISTORTION" se		
	EFFICIENCY (Typ.)	86%	89%	
	AC CURRENT (Typ.)	0.8A / 115VAC 0.4A / 230VAC 0.32A / 277VAC		
	INRUSH CURRENT (Typ.)	COLD START 50A(twidth=350 μ s measured at 50% lpeak) a	at 230VAC; Per NEMA 410	
	MAX. NO. of PSUs on 16A CIRCUIT BREAKER	9 units (circuit breaker of type B) / 16 units (circuit breaker of type C) at 230VAC		
	LEAKAGE CURRENT	<0.25mA / 277VAC		
	STANDY POWER CONSUMPTION	<0.5W		
	OVERLOAD	108 ~ 130% rated output power		
		Hiccup mode, recovers automatically after fault condition is removed		
	SHORT CIRCUIT	Shut down o/p voltage, re-power on to recover		
PROTECTION	OVER VOLTAGE	15 ~ 17V	28 ~ 34V	
	OVER VOLIAGE	Shut down o/p voltage, re-power on to recover		
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover		
ENVIRONMENT	WORKING TEMP.	Tcase=-35 ~ +85°C (Please refer to "OUTPUT LOAD vs	TEMPERATURE" section)	
	MAX. CASE TEMP.	Tcase=+85°C		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
		-35 ~ +80°C, 10 ~ 95% RH		
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)		
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes		
SAFETY & EMC	SAFETY STANDARDS Note.5	ENEC BS EN/EN61347-1, BS EN/EN61347-2-13, BS EN/EN62384 independent, GB19510.14, GB19510.1, BIS IS 15885(Part2/Sec13)(for 12/24 KN), EAC TP TC 004 approved		
	KNX STANDARDS	Certified protocol		
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC		
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25℃/ 70% RH		
	EMC EMISSION Note.6	GB17625.1;EAC TP TC 020	ass C (@load≧60%) ; BS EN/EN61000-3-3,GB/T 17743,	
		Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/ 2KV),EAC TP TC 020		
OTHERS	MTBF		7.7K hrs min. MIL-HDBK-217F (25°C)	
	DIMENSION	150*53*35mm (L*W*H)		
	PACKING	0.45Kg;30pcs/16.0Kg/1.0CUFT		
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (to point (or TMP, per DLC), is about 75°C or less. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf 			
	Reproduct Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx			



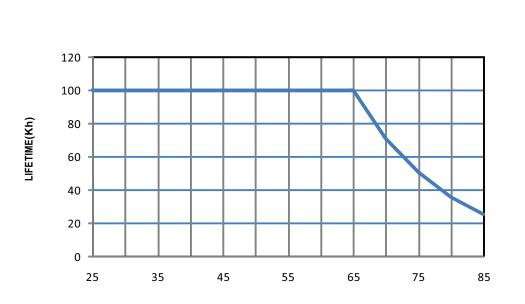






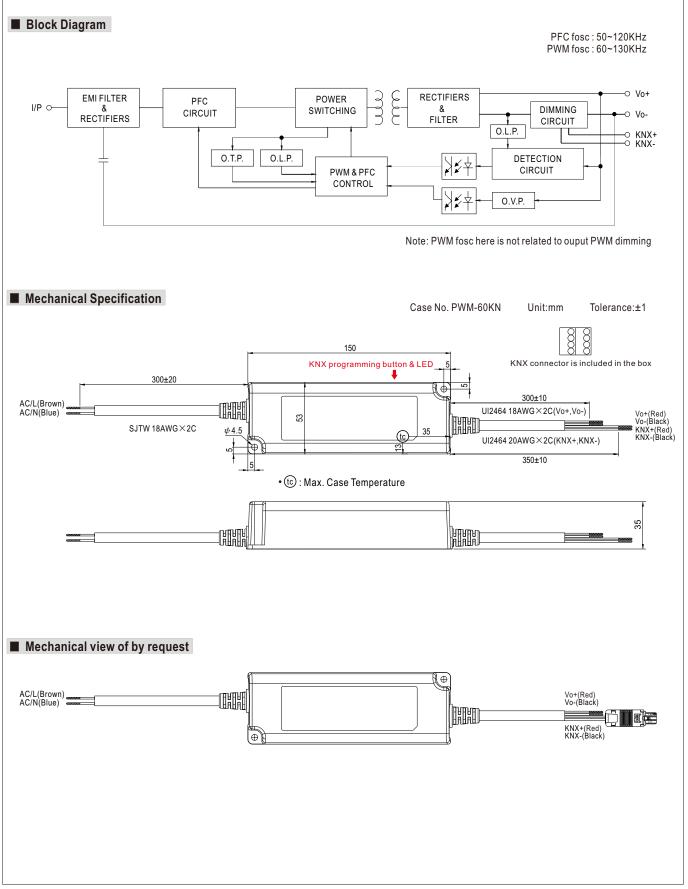


LIFE TIME



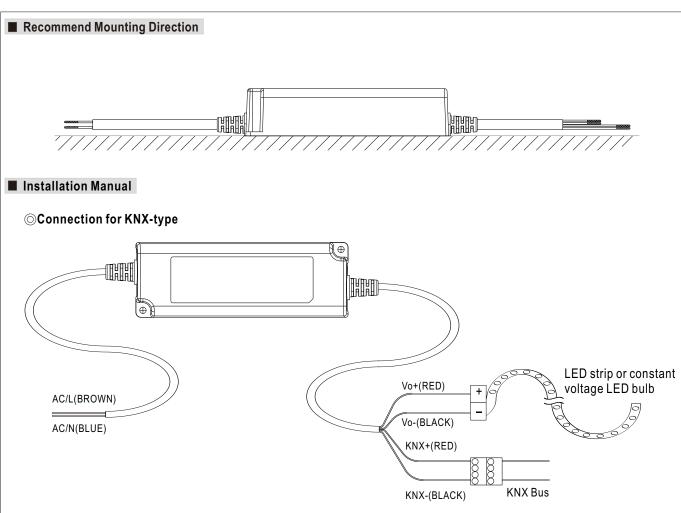
Tcase($^{\circ}\!\!\mathbb{C}$)





File Name: PWM-60-KN-SPEC 2024-09-09





PWM KN series can be ETS adressing/programming WITHOUT connecting to AC mains

◯Cautions

- Before commencing any installation or maintenance work, please disconnect the power supply from the utility. Ensure that it cannot be re-connected inadvertently!
- Keep proper ventilation around the unit and do not stack any object on it. Also a 10-15 cm clearance must be kept when the adjacent device is a heat source.
- Mounting orientations other than standard orientation or operate under high ambient temperature may increase the internal component temperature and will require a de-rating in output current.
- Current rating of an approved primary /secondary cable should be greater than or equal to that of the unit. Please refer to its specification.
- Tc max. is identified on the product label. Please make sure that temperature of Tc point will not exceed limit.
- DO NOT connect "KNX- to Vo-".
- The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.