









■ Features

- · Constant Voltage PWM style output with user changeable frequency up to 4KHz 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

■ Applications

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

■ GTIN CODE

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

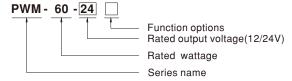
■ Description

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°C ~ +90°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.

■ Model Encoding



Type	Function	Note
KN	KNX control technology	In stock
KNBST	KNX control technology with BST14 connector	by request

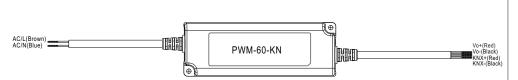
File Name:PWM-60-KN-SPEC 2022-02-18

SPECIFICATION

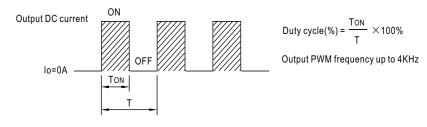
MODEL		PWM-60-12□	PWM-60-24□		
MODEL	DO VOLTA OF				
	DC VOLTAGE	12V	24V		
	RATED CURRENT	5A	2.5A		
OUTDUT	RATED POWER	60W	60W		
OUTPUT	DIMMING RANGE	0~100%			
	PWM FREQUENCY (Typ.)	200~4000Hz user changable via ETS			
	SETUP, RISE TIME Note.2	500ms, 80ms/ 115AC or 230VAC			
	HOLD UP TIME (Typ.)	16ms/115VAC or 230VAC			
	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%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION" section)			
INPUT	EFFICIENCY (Typ.)	86%	89%		
01	AC CURRENT (Typ.)	0.8A / 115VAC 0.4A / 230VAC 0.32A / 277VAC			
	INRUSH CURRENT (Typ.)	COLD START 50A(twidth=350µs measured at 50% Ipeak) 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		
		Shut down o/p voltage, re-power on to recover			
	OVER TEMPERATURE Shut down o/p voltage, re-power on to recover				
	WORKING TEMP.	VORKING 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			
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-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 STANDARDS Note.5	ENEC BS EN/EN61347-1, BS EN/EN61347-2-13, BS EN/EN62384 independent, GB19510.14,GB19510.1, EAC TP TC 004 approved			
	KNX STANDARDS	Certified protocol			
CAFETY	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC			
SAFETY & :	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH			
	EMC EMISSION Note.6	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@load ≥ 60%) ; BS EN/EN61000-3-3,GB17743 and GB17625.1,EAC TP TC 020			
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/ 2KV),EAC TP TC 020			
	MTBF	2135.2K hrs min. Telcordia SR-332 (Bellcore); 24	7.7K hrs min. MIL-HDBK-217F (25°C)		
OTHERS	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℃ 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. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly ⊕ point (or TMP, per DLC), is about 75℃ 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℃/1000m with fanless models and of 5℃/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 				
	8. For any application note and	d IP water proof function installation caution, please refer our use	er manual before using.		



■ DIMMING OPERATION

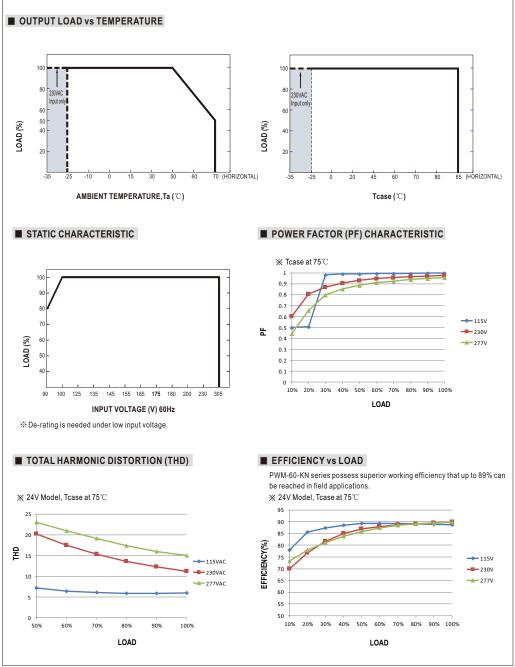


Dimming is achieved by varying the duty cycle of the output current.



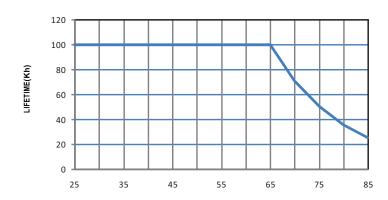
- Apply KNX signal between KNX+ and KNX-.
 The application program(database) can be downloaded via Online Catalogs from ETS or via http://www.meanwell.com/productCatalog.aspx



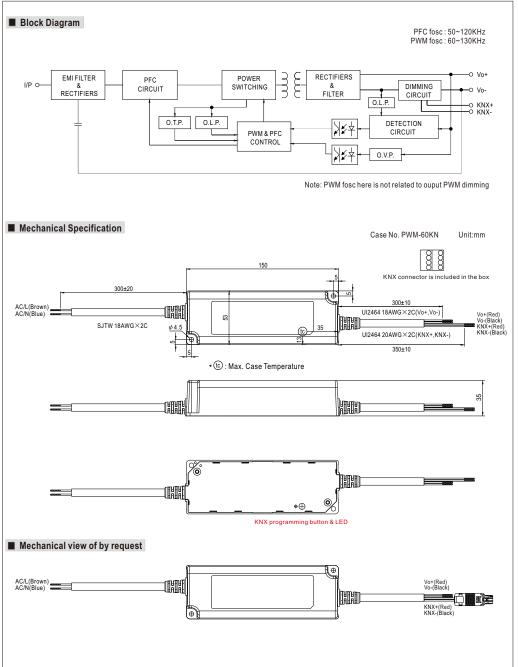


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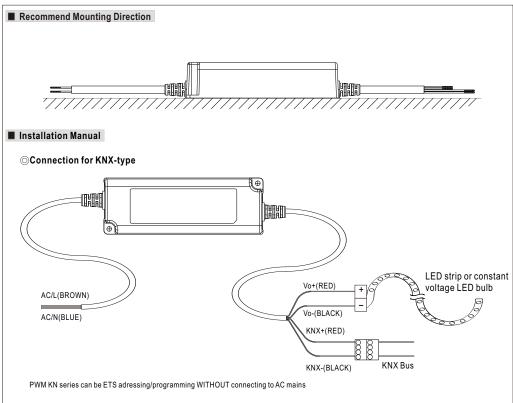


Tcase(℃)



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○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.