

Наличие и актуальные цены на

PWM-60-12

https://www.mean-well.ru/store/PWM-60-12/





IS 15885

8

(for 12,24 Type only)



DALD

(for DA-Type only)



Features

- Constant Voltage PWM style output
- · Emergency lighting application is available according to IEC61347-2-13
- · Built-in active PFC function and class II/2 design
- No load power consumption <0.5W
- Fully encapsulated with IP67 level
- Function: 3 in 1 dimming(dim-to-off); DALI/DALI-2
- Minimum dimming level 0.2% for DALI type
- Typical lifetime>50000 hours and 5 years warranty

Applications

LED strip lighting

E334687 Type HL (except for DA-Type)

- Indoor LED lighting
- LED decorative lighting
- · LED architecture lighting
- Industrial lighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

IP67

(CCC optional)

DALD

(for DA2-Type only)

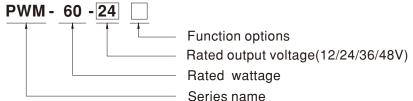
GTIN CODE

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

Description

PWM-60 series is a 60W LED AC/DC LED driver featuring the constant voltage mode with PWM style output, which is able to maintain the brightness homogeneity when driving all kinds of LED strips. PWM-60 operates from 90 \sim 305VAC and offers models with different rated voltage ranging between 12V and 48V. Thanks to the high efficiency up to 90%, with the fanless design, the entire series is able to operate for -40 $^\circ$ C ~ +85 $^\circ$ C case temperature under free air convection. The entire series is rated with IP67 ingress protection level and is suitable to work for dry, damp or wet locations. PWM-60 is equipped with dimming function that varies the duty cycle of the output, providing great flexibility for LED strips applications.

Model Encoding



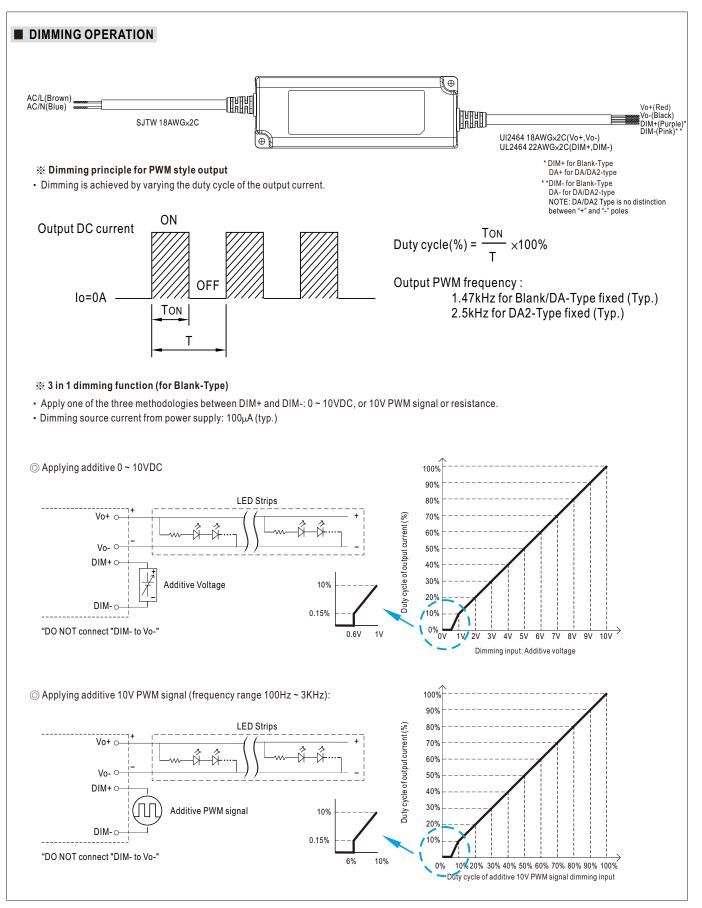
Туре	IP Level	Function	Note
Blank	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In stock
DA	IP67	DALI control technology.(for 12V/24V with DA type only)	In stock
DA2	IP67	DALI-2 control technology.(for 12V/24V with DA2 type only)	In stock



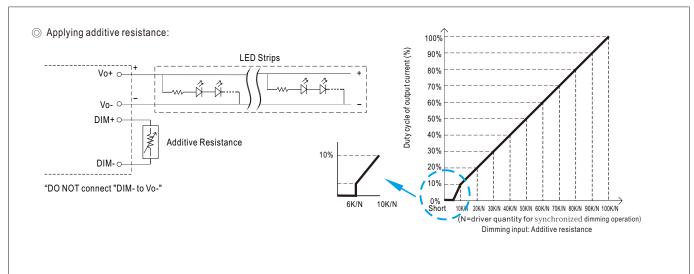
SPECIFICATION

OUTPUT	DC VOLTAGE RATED CURRENT	12V	0.07	0.01/				
OUTPUT	RATED CURRENT		24V	36V	48V			
OUTPUT		5A	2.5A	1.67A	1.25A			
OUTPUT	RATED POWER	60W	60W	60.12W	60W			
	DIMMING RANGE	0~100%						
	PWM FREQUENCY (Typ.)	1.47kHz for Blank/DA-Type, 2.5kHz for DA2-Type						
	SETUP, RISE TIME Note.2 Note.9							
	HOLD UP TIME (Typ.)	16ms/115VAC or 230VAC						
INPUT		90 ~ 305VAC 127 ~ 431VDC						
	VOLTAGE RANGE Note.3	(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)						
	EFFICIENCY (Typ.)	86%	89%	90%	90%			
	AC CURRENT (Typ.)	0.8A / 115VAC 0.4A / 2	30VAC 0.32A / 277VAC					
	INRUSH CURRENT (Typ.)							
	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						
	NO LOAD POWER CONSUMPTION	N <0.5W						
PROTECTION		108 ~ 130% rated output power						
	OVERLOAD	Hiccup mode, recovers automatically after fault condition is removed						
	SHORT CIRCUIT	Shut down o/p voltage, re-power on to recover(except for DA2-type) Hiccup mode,recovers automatically after fauit condition is removed (only for DA2-type)						
	OVER VOLTAGE	15 ~ 17V Shut down o/p voltage, re-p	28 ~ 34V	41 ~ 46V	54 ~ 60V			
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover						
	WORKING TEMP.							
ENVIRONMENT	MAX. CASE TEMP.	Tcase=-40 ~ +85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)						
		Tcase=+85°C						
	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
	STORAGE TEMP., HUMIDITY							
	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	UL8750(type "HL")(except for DA-Type), UL879(for 12V,24V Blank Type only), CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384, IP67,BIS IS 15885(Part2/Sec13)(for 12,24,48 Blank and 12,24-DA2 Type), EAC TP TC 004, GB19510.1,GB19510.14 approved; Design refer to BS EN/EN60335-1; According to BS EN/EN61347-2-13 appendix J suitable for emergency installations(EL) (AC Input: 100-240Vac)(for DA2-Type only)						
	DALI STANDARDS	IEC62386-101, 102, 207,251 for DA/DA2-Type only,Device type 6(DT6)						
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC; I/P-DA:1.5KVAC; O/P-DA:1.5KVAC						
	ISOLATION RESISTANCE							
	EMC EMISSION Note.6	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@load ≥ 60%) ; BS EN/EN61000-3-3,GB/T 17743, GB17625.1;EAC TP TC 020						
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN61547, light industry level (surge immunity Line-Line 2KV),EAC TP TC 020						
-	MTBF	2626.6K hrs min. Telcordia SR-332 (Bellcore) ; 227.1K hrs min. MIL-HDBK-217F (25°C)						
	DIMENSION	150*53*35mm (L*W*H)						
	PACKING	0.49Kg;30pcs/15.7Kg/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 (c) 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 Based on IEC 62386-101/102 DALI power on timing and interruption regulations, the set up time needs to test with a DALI controller which can support for DALI power on function, otherwise the set up time will be higher than 0.5 second for DA type. Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 							



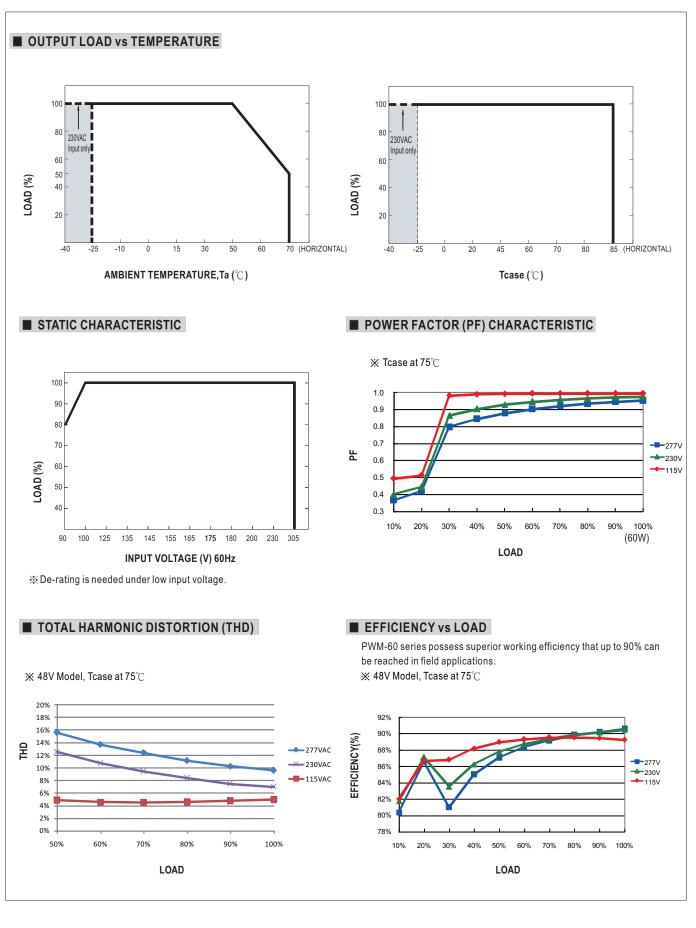






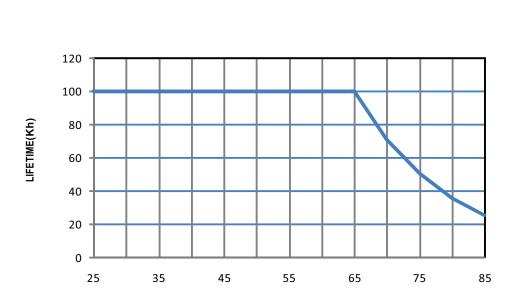
- Note : 1. Min. duty cycle of output current is about 6% and the output current is not defined when 0% Iout 6%. 2. The duty cycle of output current could drop down to 0% when dimming input is about $0 k\Omega$ or 0Vdc, or 10V PWM signal with 0% duty cycle.
 - ※ DALI Interface (primary side; for DA/DA2-Type)
 - Apply DALI signal between DA+ and DA-.
 - DALI protocol comprises 16 groups and 64 addresses.
 - First step is fixed at 0.2% of output





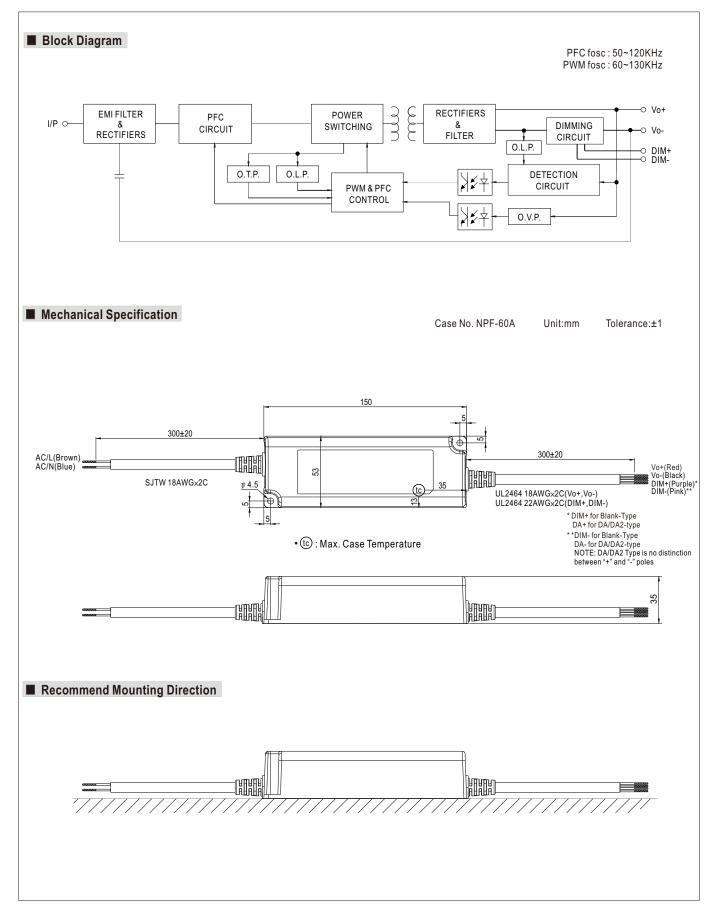


LIFE TIME



Tcase($^\circ\! C$)

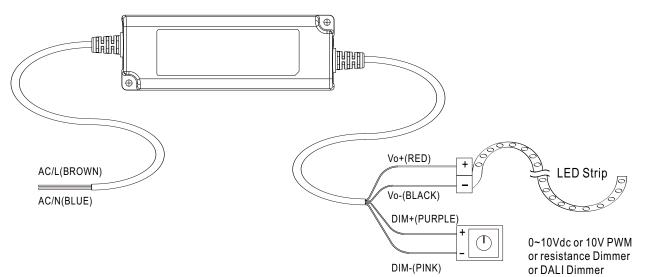






Installation Manual





\bigcirc 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.
- For LED drivers with waterproof connectors, verify that the linkage between the unit and the lighting fixture is tight so that water cannot intrude into the system.
- For dimmable LED drivers, make sure that your dimming controller is capable of driving these units.PWM series require 0.15mA each unit.
- Tc max. is identified on the product label. Please make sure that temperature of Tc point will not exceed limit.
- DO NOT connect "DIM- to Vo-".
- Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minutes.
- 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.