

Наличие и актуальные цены на

PWM-120-24

https://www.mean-well.ru/store/PWM-120-24/



























(for DA2-Type only) Features

- · Constant voltage PWM style output
- Emergengcy lighting application is available according to IEC61347-2-13
- · Built-in active PFC function and class II design
- No load power consumption <0.5W/ standby power consumption < 0.5W(DA/DA2-type)
- Fully encapsulated with IP67 level
- Function options: 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
- Indoor LED lighting
- · LED decorative lighting
- LED architecture lighting
- Industrial lighting
- Type "HL" for use in class I, division 2 hazardous (classified) location.

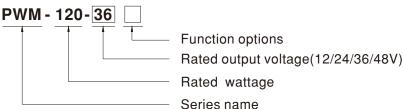
GTIN CODE

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

Description

PWM-120 series is a 120W AC/DC LED driver featuring the constant voltage mode with PWM style output, which is able to maintain the color temperature and the brightness homogeneity when driving all kinds of LED strips. PWM-120 operates from 90~305VAC and offers models with different rated voltage ranging between 12V and 48V. Thanks to the high efficiency up to 90.5%, with the fanless design, the entire series is able to operate for -40 $^{\circ}$ C \sim +90 $^{\circ}$ 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-120 is equipped with dimming function that varies the duty cycle of the output, providing great flexibility for LED strips applications.

■ Model Encoding



Type	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 DA type only)	In stock
DA2	IP67	DALI-2 control technology.(for 12V/24V with DA2 Type only)	In stock



SPECIFICATION

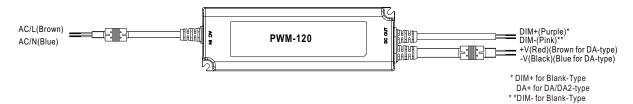
MODEL		PWM-120-12	PWM-120-24		PWM-120-36		PWM-120-48		
	DC VOLTAGE	12V	24V		36V		48V		
OUTPUT	RATED CURRENT	10A	5A		3.4A		2.5A		
	RATED POWER	120W	120W		122.4W		120W		
	DIMMING RANGE	0 ~ 100%							
	PWM FREQUENCY (Typ.)	1.47kHz for Blank/DA-Type, 2.5kHz for DA2-Type							
	N. C. O	500ms, 80ms/ 230VAC or 115VAC							
	HOLD UP TIME (Typ.)	16ms/230VAC or 115VAC							
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>0.96/230VAC, PF>0.93/277VAC @ 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.)	88.5%	90%		90%		90.5%		
	AC CURRENT (Typ.)	1.3A / 115VAC 0.65A /	230VAC 0.5	6A / 277VAC	,				
	INRUSH CURRENT (Typ.)	COLD START 60A(twidth=520µs measured at 50% Ipeak) at 230VAC; Per NEMA 410							
	MAX. NO. of PSUs on 16A CIRCUIT BREAKER	4 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC							
	LEAKAGE CURRENT	<0.25mA / 277VAC							
	NO LOAD/STANDBY POWER CONSUMPTION	NER CONSUMPTION No load power consumption to swift blank-type; standby power consumption to swift blank-type							
	OVERLOAD	108 ~ 130% rated output power Hiccup mode, recovers automatically after fault condition is removed							
	SHORT CIRCUIT	12V/24V hiccup mode and 36V/48V shut down mode(including DA-type/except for DA2-type) Hiccup mode, recovers automatically after fault condition is removed (only for DA2-type)							
		15 ~ 17V	28 ~ 34V		41 ~ 46V	•	54 ~ 60V		
	OVER VOLTAGE	Shut down o/p voltage, re-p	ower on to recove						
	OVER TEMPERATURE Shut down o/p voltage, re-power on to recover								
	WORKING TEMP. Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)					E" section)			
ENVIRONMENT	MAX. CASE TEMP.	Tcase=+90°C							
	WORKING HUMIDITY								
	STORAGE TEMP., HUMIDITY -40 ~ +80°C, 10 ~ 95% RH								
	TEMP. COEFFICIENT	$\pm 0.03\%$ °C (0 ~ 45°C, except 0 ~ 40°C for 12V)							
	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 12DA type), CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 BS EN/EN62384 independent JP67 BIS IS 15885(Part2/Sec13)(for 12.24 Blank and DA2 Type). EAC TP TC 004							
	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	EAC TP TC 020	000-4-2,3,4,5,6,8	11; BS EN/	EN61547, light	industry level	(surge immunity Line-Line 2KV)		
OTHERS	MTBF		lia SR-332 (Bellco	re); 22	8.7K hrs min.	MIL-HDBK-2	217F (25℃)		
	DIMENSION	191*63*37.5mm (L*W*H)	OUET						
	PACKING 1 All parameters NOT special	5, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,							
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(6500ff. 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 								

 $\hbox{$\%$ Product Liability Disclaimer: For detailed information, please refer to $https://www.meanwell.com/serviceDisclaimer.aspx}$$

DA- for DA/DA2-type

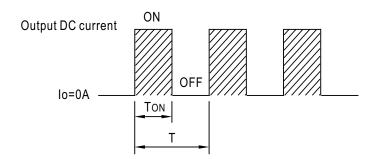


■ DIMMING OPERATION



※ Dimming principle for PWM style output

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

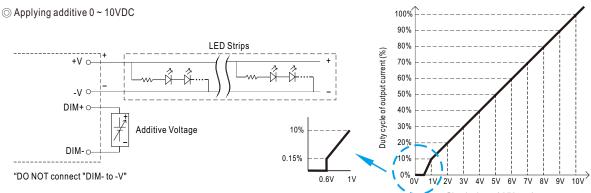


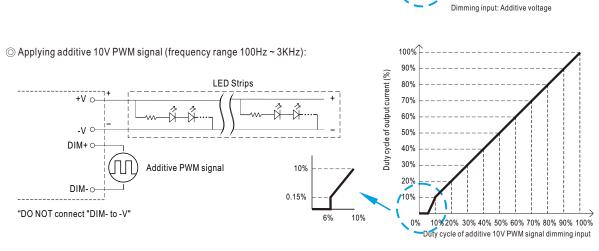
Duty cycle(%) =
$$\frac{TON}{T} \times 100\%$$

Output PWM frequency: 1.47kHz for Blank/DA-Type 2.5kHz for DA2-Type

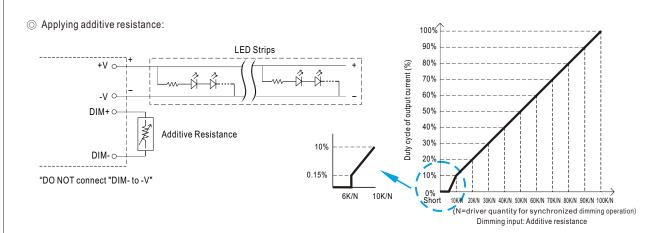
% 3 in 1 dimming function (for Blank-Type)

- Apply one of the three methodologies between DIM+ and DIM-: 0 ~ 10VDC, or 10V PWM signal or resistance.
- Dimming source current from power supply: 100µA (typ.)







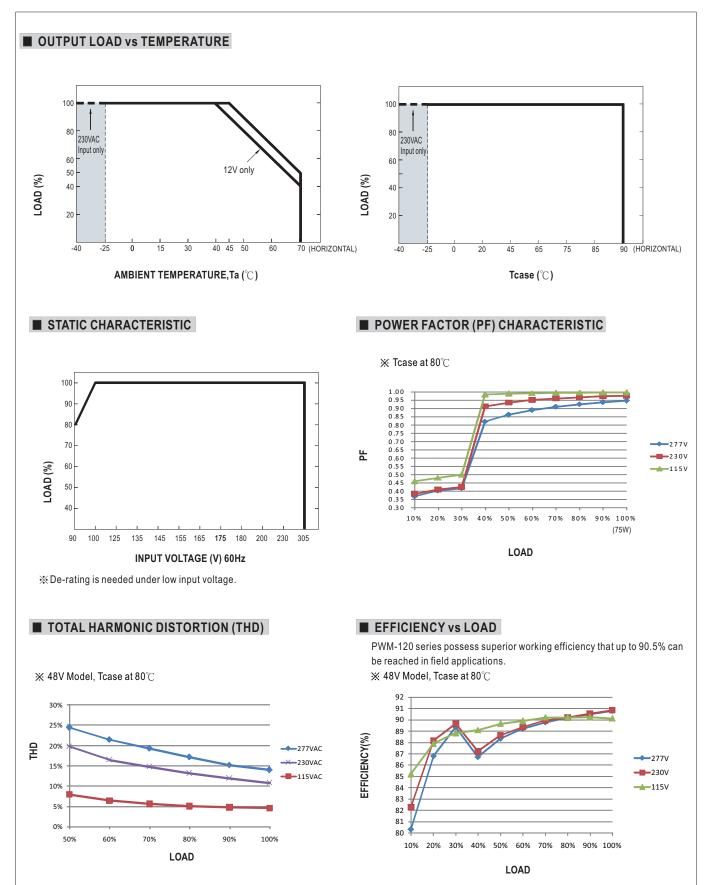


Note: 1. Min. duty cycle of output current is about 0.15%, and the dimming input is about $6K\Omega$ or 0.6VDC, or 10V PWM signal with 6% duty cycle. 2. The duty cycle of output current could drop down to 0% when dimming input is less than $6K\Omega$ or less than 0.6VDC, or 10V PWM signal with duty cycle less than 6%.

DALI Interface (primary side; for DA/DA2-Type)

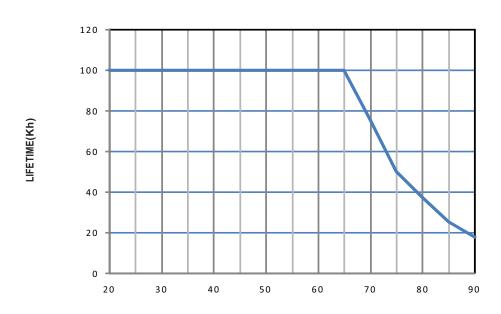
- Apply DALI signal between DA+ and DA-.
- DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 0.2% of output





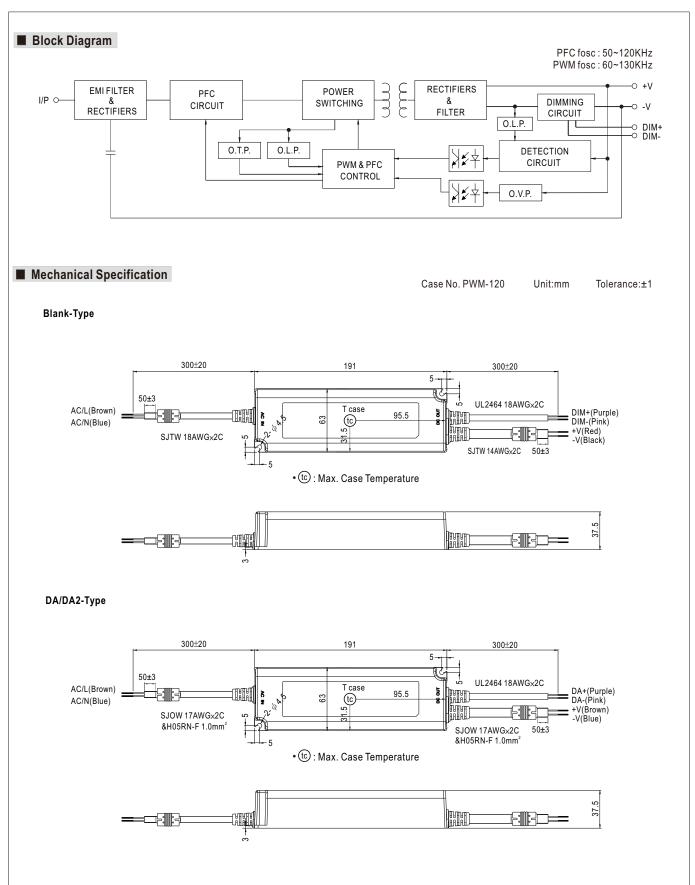


■ LIFE TIME



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

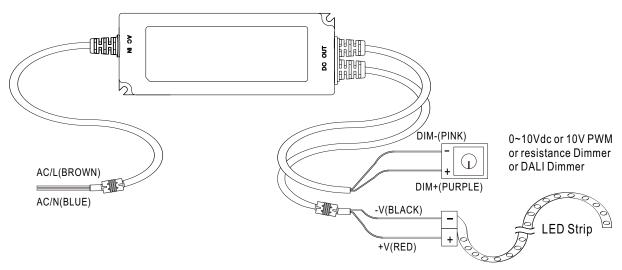






■ Recommend Mounting Direction ■ Installation Manual

○Connection for Blank-type



©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 -V".
- 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.