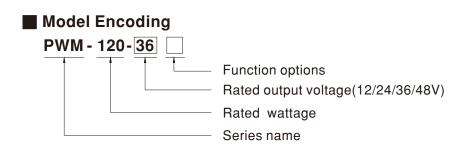


#### Description

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  $90 \sim 305$ VAC 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.



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



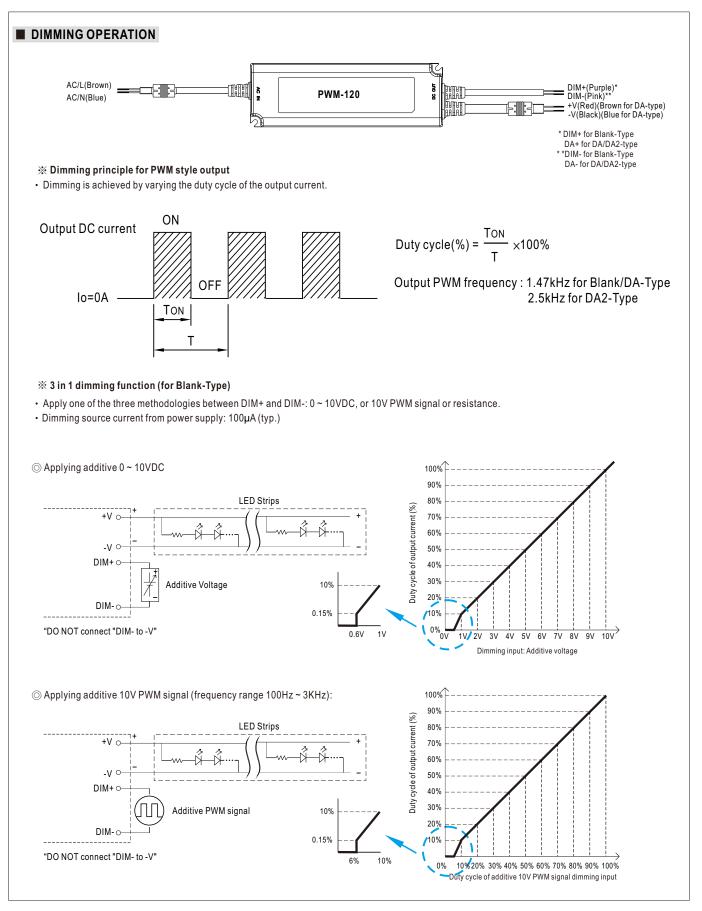
#### **SPECIFICATION**

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					
	Nata 0	00ms, 80ms/ 230VAC or 115VAC					
	HOLD UP TIME (Typ.)	16ms/230VAC or 115VAC					
	11010 01 111112 (1 <b>3</b> pi)	90 ~ 305VAC 127 ~ 431VDC					
INPUT	VOLTAGE RANGE Note.3		IC CHARACTERISTIC" sec	tion)			
	FREQUENCY RANGE	47 ~ 63Hz					
		PF>0.97/115VAC, PF>0.96/230VAC, PF>0.93/277VAC @ full load					
	POWER FACTOR (Typ.)	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)					
	TOTAL HARMONIC DISTORTION		D<20%(@load≧60%/115VAC, 230VAC; @load≧75%/277VAC) ease refer to "TOTAL HARMONIC DISTORTION" section)				
	EFFICIENCY (Typ.)	88.5%	90%	90%	90.5%		
	AC CURRENT (Typ.)	1.3A / 115VAC 0.	65A / 230VAC 0.55A /	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		ption<0.5w for blank-type;s	tandby power consumption<0	0.5W for DA-type/DA2-type		
PROTECTION	OVERLOAD	108 ~ 130% rated output power					
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed 12V/24V hiccup mode and 36V/48V shut down mode(including DA-type/except for DA2-type)					
				ndition is removed (only for D			
		15 ~ 17V	28 ~ 34V	41~46V	54 ~ 60V		
	OVER VOLTAGE	Shut down o/p voltage	, re-power on to recover				
	OVER TEMPERATURE	Shut down o/p voltag	e, re-power on to recover				
ENVIRONMENT	WORKING TEMP.	Tcase=-40 ~ +90°C (P	lease refer to " OUTPUT LC	AD vs TEMPERATURE" sect	ion)		
	MAX. CASE TEMP.	Tcase=+90°C					
	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
	STORAGE TEMP., HUMIDITY						
	TEMP. COEFFICIENT	±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 IS15885( for PWM-120-12 24 only) EAC TP TC 004 GB19510 1 GB19510 14					
	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	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 EAC TP TC 020	/EN61000-4-2,3,4,5,6,8,11;	BS EN/EN61547, light indust	ry level (surge immunity Line-Line 2KV),		
	MTBF	2243.7K hrs min. T	elcordia SR-332 (Bellcore) ;	228.7K hrs min. MIL-	HDBK-217F (25°C)		
OTHERS	DIMENSION	191*63*37.5mm (L*W	*H)		· · · · · · · · · · · · · · · · · · ·		
	PACKING	0.97Kg; 15pcs/15.6Kg	1/0.87CUFT				
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.</li> <li>De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</li> <li>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.</li> <li>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.</li> <li>This series meets the typical life expectancy of &gt;50,000 hours of operation when Tcase, particularly © point (or TMP, per DLC), is about 75°C or less.</li> <li>Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com</li> <li>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).</li> <li>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</li> <li>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.</li> <li>Product Liability Disclaimer : For detailed information, please refer to thttps://www.meanwell.com/serviceDisclaimer.aspx</li> </ol>						





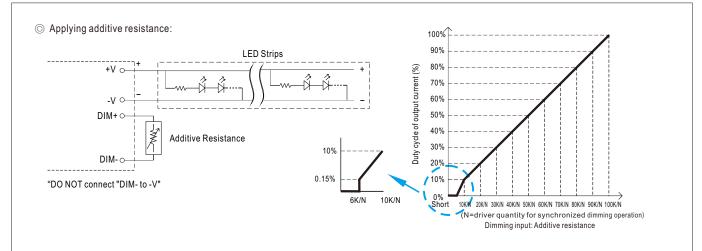
### 120W PWM Output LED Driver







### 120W PWM Output LED Driver

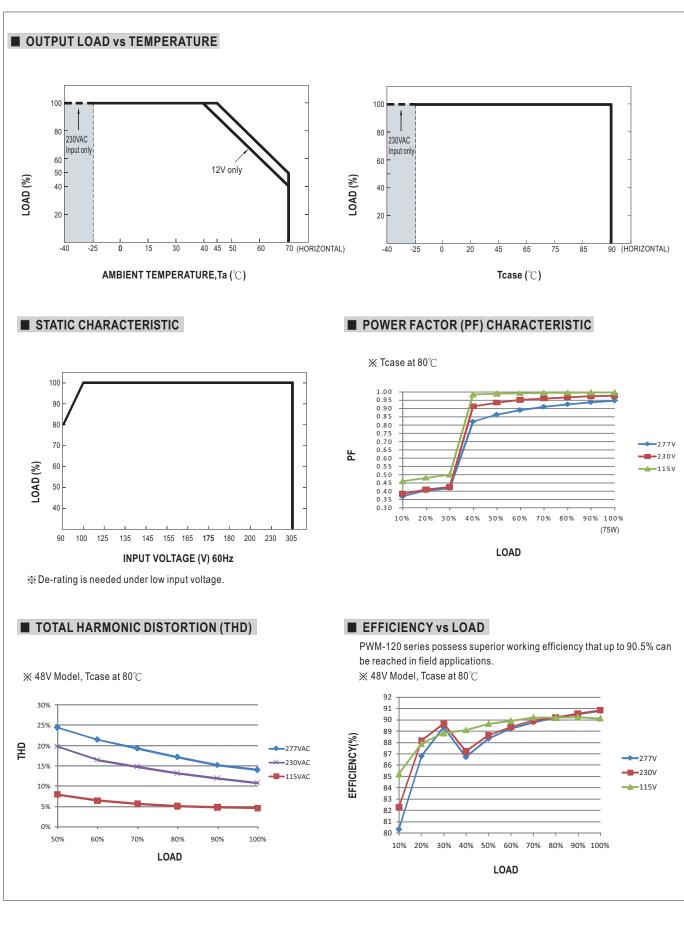


- Note : 1. Min. duty cycle of output current is about 0.15%, and the dimming input is about 6KΩ or 0.6VDC, or 10V PWM signal with 6% duty cycle.
   2. The duty cycle of output current could drop down to 0% when dimming input is less than 6KΩ or less than 0.6VDC, or 10V PWM signal with duty cycle less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





### 120W PWM Output LED Driver





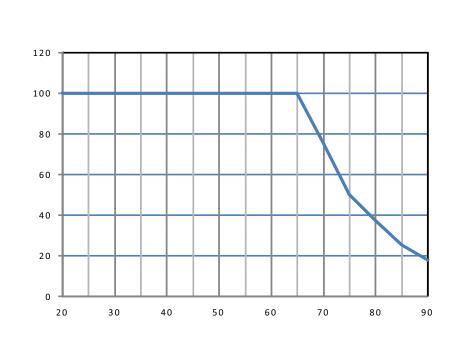


### 120W PWM Output LED Driver

# PWM-120 series

■ LIFE TIME

LIFETIME(Kh)

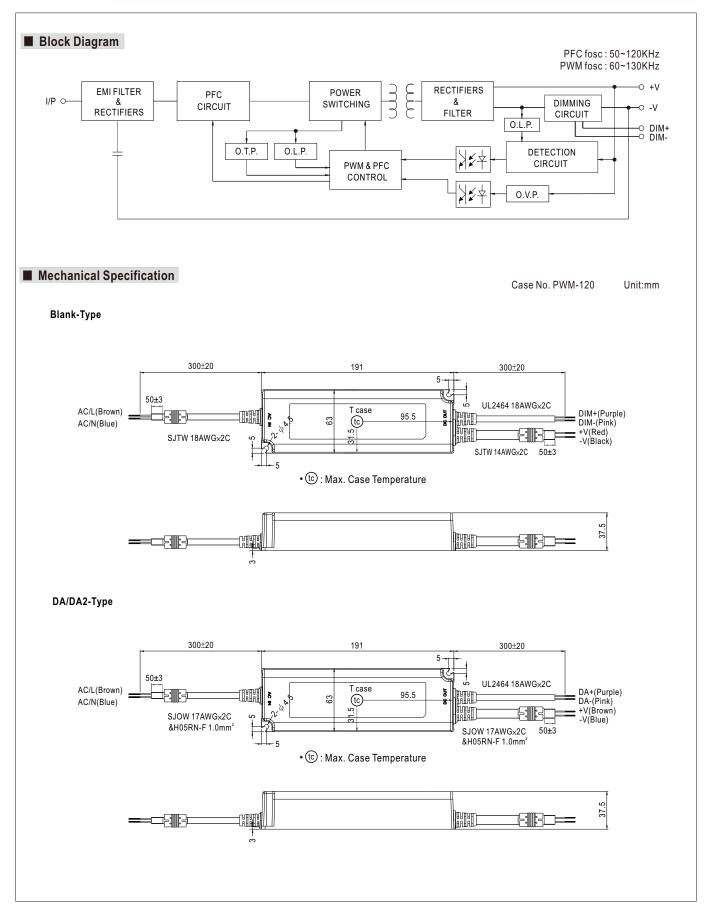








### 120W PWM Output LED Driver

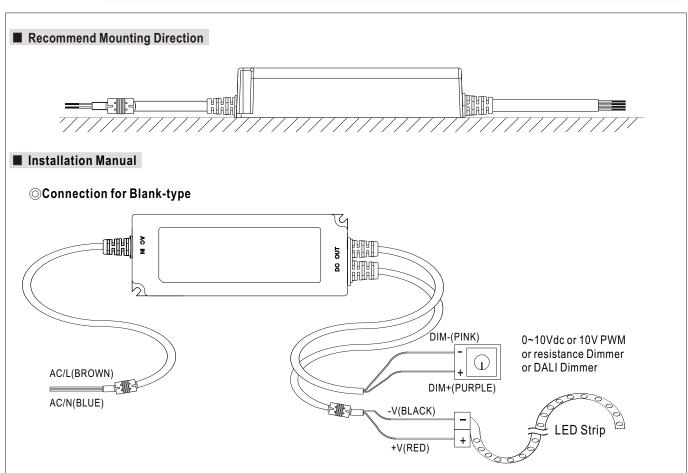






### 120W PWM Output LED Driver

## PWM-120 series



#### **○**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.