



(for DA2-Type only) (for DA-Type only)

us FAT **CBCE**

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 2.0
- Minimum dimming level 0.2% for DALI type
- Typical lifetime>50000 hours and 5 years warranty

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 °C $\sim +90$ °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 <u>PWM</u> - <u>120</u>-<u>36</u>

Function options Rated output voltage(12/24/36/48V) Rated wattage Series name

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 2.0 control technology.(for 12V/24V with DA2 Type only)	In stock

Applications

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• LED strip lighting

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IS 15885(Part 2/Sec13)

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R-41027766

(for PWM-120-12,24 only)

- Indoor LED lighting
- LED decorative lighting
- · LED architecture lighting
- Type "HL" for use in class I, division 2 hazardous (classified) location.

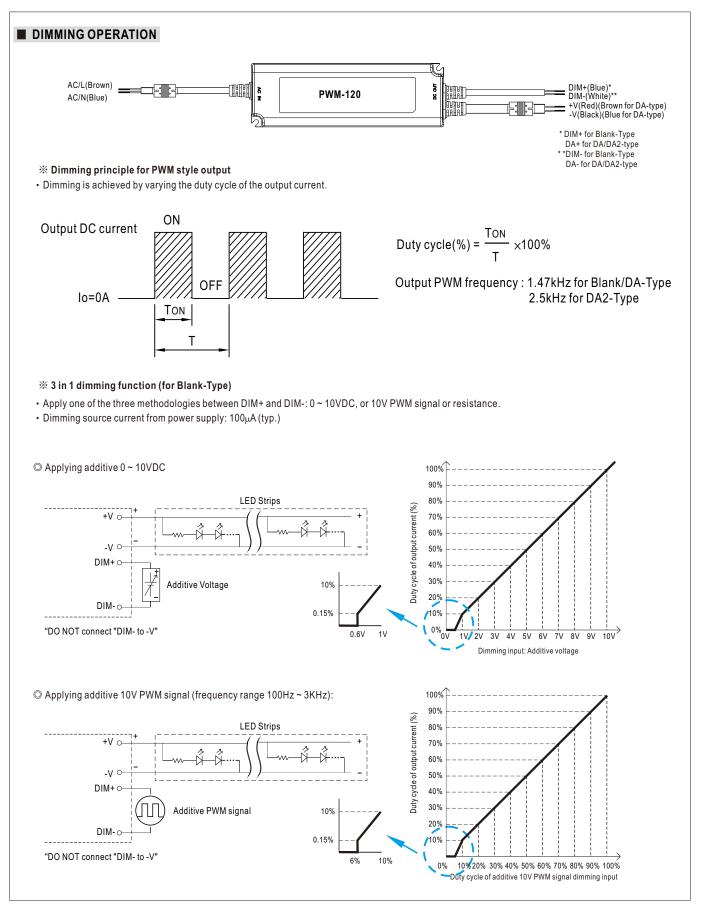


SPECIFICATION

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					
	SETUP, RISE TIME Note.2 Note.9	00ms, 80ms/ 230VAC or 115VAC					
	HOLD UP TIME (Typ.)	16ms/230VAC or 115VAC					
		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			C, 230VAC; @load≧75%/277VAC) DNIC DISTORTION" section)			
	EFFICIENCY (Typ.)	88%	90%	90%	90.5%		
INPUT	AC CURRENT (Typ.)	1.3A / 115VAC 0.65A /	230VAC 0.55A / 277VA	AC			
	INRUSH CURRENT (Typ.)	COLD START 60A(twidth=52	0µs measured at 50% lpeak) at 230VAC; Per NEMA 410			
	MAX. NO. of PSUs on 16A CIRCUIT BREAKER	4 units (circuit breaker of type	e B) / 6 units (circuit breaker c	of type C) at 230VAC			
	LEAKAGE CURRENT	<0.25mA/277VAC					
	NO LOAD/STANDBY POWER CONSUMPTION	No load power consumption	<0.5w for blank-type;standb	y power consumption<0.5W	/ for DA-type/DA2-type		
	OVERLOAD	108 ~ 130% rated output po Hiccup mode, recovers auto	matically after fault conditio				
	SHORT CIRCUIT		86V/48V shut down mode(ind matically after fault condition				
PROTECTION		15 ~ 17V	28 ~ 34V	41 ~ 46V	54 ~ 60V		
	OVER VOLTAGE	Shut down o/p voltage, re-p	ower on to recover				
	OVER TEMPERATURE	Shut down o/p voltage, re-	power on to recover				
ENVIRONMENT	WORKING TEMP.	Tcase=-40 ~ +90°C (Please	e refer to " OUTPUT LOAD ve	s TEMPERATURE" section)			
	MAX. CASE TEMP.	Tcase=+90°C					
	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03%/°C (0~45°C,excep	ot 0 ~ 40°C for 12V)				
	VIBRATION	10 ~ 500Hz, 5G 12min./1cy	cle, period for 72min. each a	along X, Y, Z axes			
SAFETY & EMC OTHERS	SAFETY STANDARDS Note.5	IP67,BIS IS15885(for PWM-120-12,24 only), EAC IP IC 004,GB19510.1,GB19510.14 approved; Design refer to EN60335-1;					
	DALI STANDARDS	According to EN61347-2-13 appendix J suitable for emergency installations IEC62386-101, 102, 207,251 for DA/DA2-Type only, Device type 6(DT6)					
	WITHSTAND VOLTAGE		::1.5KVAC: 0/P-DA:1.5KVA				
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500	,				
	EMC EMISSION Note.6			60%) · EN61000 3 3 CB1774	3 and GB17625.1,EAC TP TC 0		
		· · ·		,	ty Line-Line 2KV),EAC TP TC 0		
	EMC IMMUNITY MTBF		· · · · · · · · · · · · · · · · · · ·		-		
		860.4K hrs min. Telcordia SF 191*63*37.5mm (L*W*H)	R-332 (Bellcore) ; 228.7K		(200)		
	DIMENSION PACKING	0.97Kg; 15pcs/15.6Kg/0.87	CLIFT				
	1. All parameters NOT speciall	y mentioned are measured at 2	30VAC input, rated current and				
NOTE	 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 (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 https://www.meanwell.com/U Based on IEC 62386-101/100 can support for DALI power of 	IP water proof function installat	tion caution, please refer our u erruption regulations, the set up b time will be higher than 0.5 se	ser manual before using. time needs to test with a DAL econd for DA type.	I controller which		

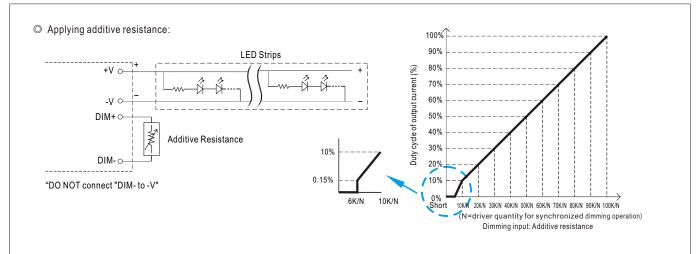


PWM-120 series



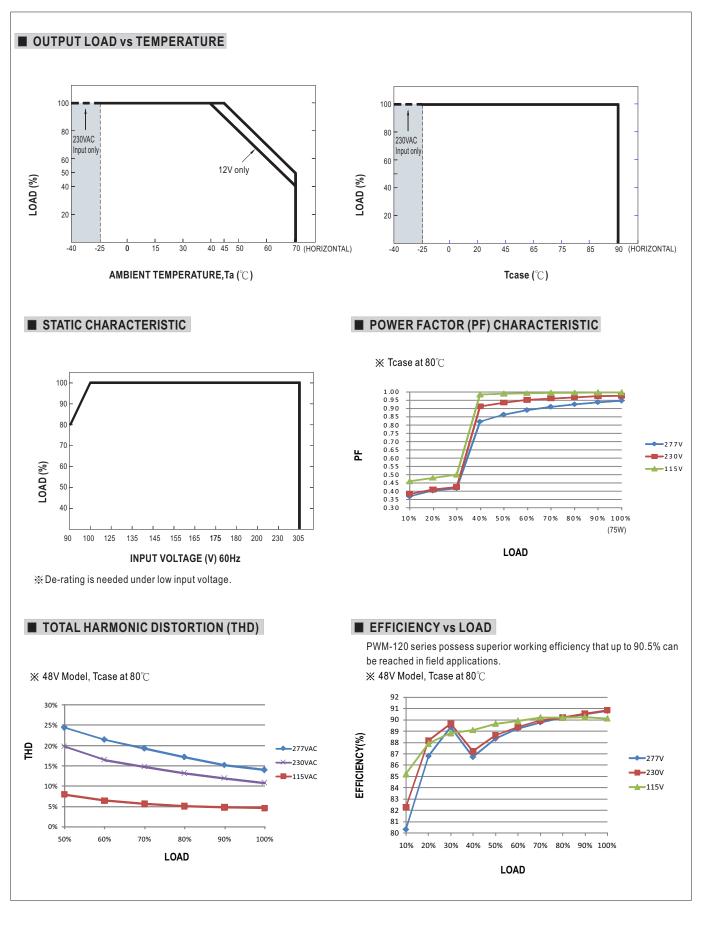


PWM-120 series



- 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



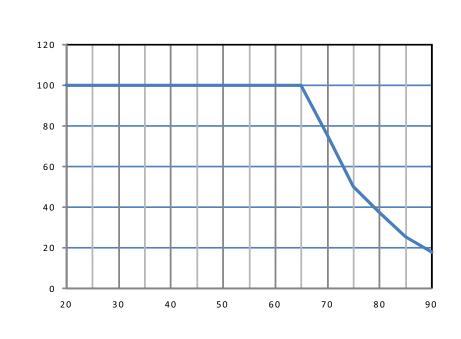




PWM-120 series

LIFE TIME

LIFETIME(Kh)

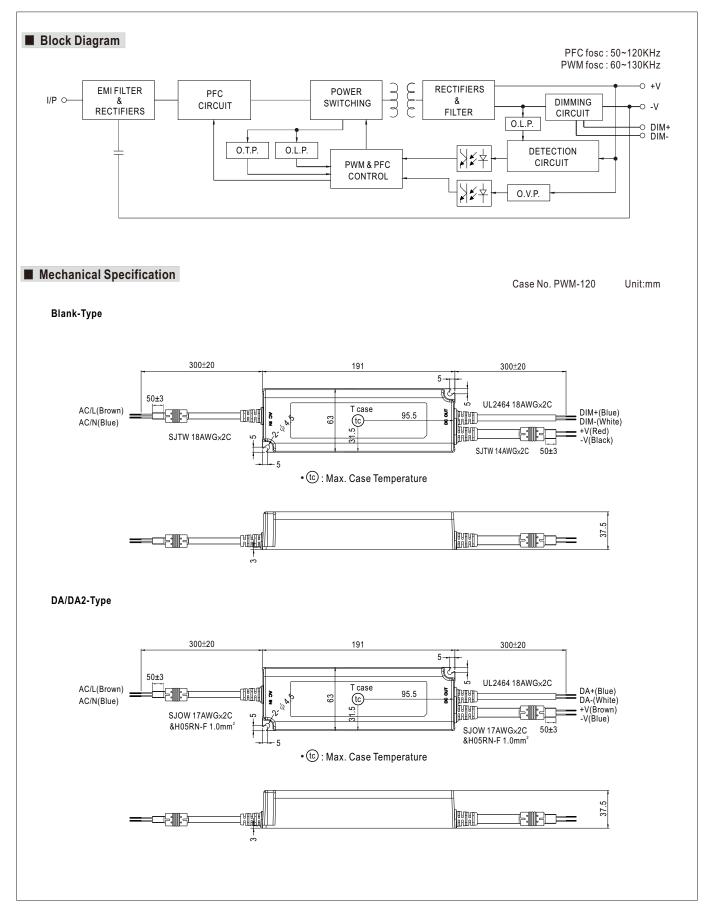




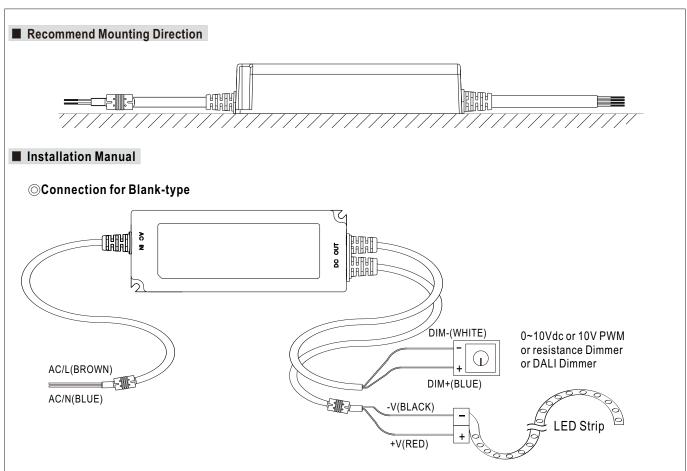


120W PWM Output LED Driver

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.
- For more information about installation, Please refer to : http://www.meanwell.com/manual.html for details.