

1F., No.40, Juren Ln., Sec. 2, Sanmin Rd., Banciao Dist., New Taipei City

22069, Taiwan (R.O.C.)

Phone: 886-2-2957 5580 Fax: 886-2-2957 7473

120W LED Driver power supply < PWM-120





Features

- Constant Voltage PWM style output with frequency 1.47kHz
- · Plastic housing with class II design
- · Built-in active PFC function
- No load power consumption <0.5W
- · Fully encapsulated with IP67 level
- · Function options: 3 in 1 dimming (dim-to-off); DALI
- · Typical lifetime>50000 hours
- · 5 years warranty

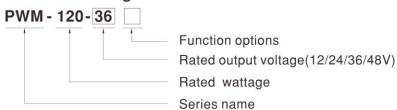
Applications

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

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 $90\sim305$ 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% 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



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.	By request



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SPECIFICATION

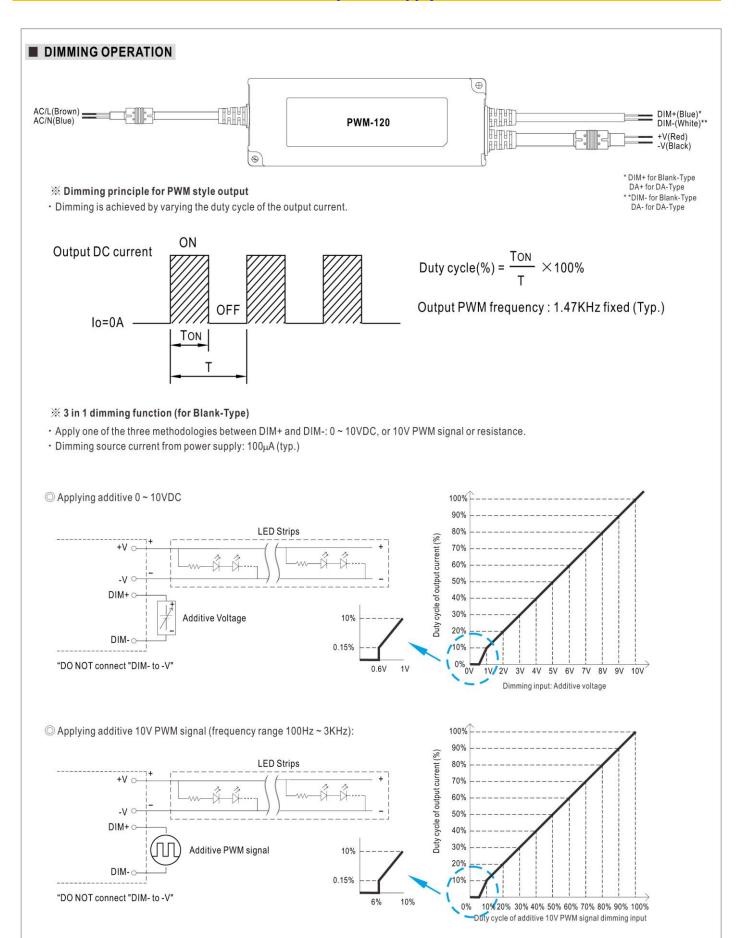
MODEL		PWM-120-12	PWM-120-24		PWM-120-36	PWM-120-48		
	DC VOLTAGE	12V	24V	(36V	48V		
OUTPUT	RATED CURRENT	10A	5A	(3.4A	2.5A		
	RATED POWER	120W	120W		122.4W	120W		
	DIMMING RANGE	0 ~ 100%						
	PWM FREQUENCY (Typ.)	1.47kHz						
	SETUP, RISE TIME Note.2	500ms, 80ms/ 230VAC or 115VAC						
	HOLD UP TIME (Typ.)	16ms/230VAC or 115VAC						
INPUT	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>0.96/230VAC, PF>0.94/277VAC @ 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%	90%		90%	90.5%		
	AC CURRENT (Typ.)	1.3A / 115VAC 0.65A /	230VAC 0.5	5A / 277VAC				
	INRUSH CURRENT (Typ.)	COLD START 60A(twidth=52	20µs measured at	50% Ipeak) at	230VAC; Per NEMA	A 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 POWER CONSUMPTION	<0.5W						
	OVERLOAD	108 ~ 120% rated output power						
	OVERLOAD	Hiccup mode, recovers automatically after fault condition is removed						
	SHORT CIRCUIT	Shut down o/p voltage, re-p	ower on to recove	r				
PROTECTION	OVERVOLTAGE	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 voltage, re-power on to recover						
	WORKING TEMP.	Tcase=-40 ~ +90 ℃ (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)						
ENVIRONMENT	MAX. CASE TEMP.	Tcase=+90°C						
	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
	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 STANDARDS Note.5	UI8750(type "HL"), CSA C22.2 No. 250.13-12; ENEC EN61347-1, EN61347-2-13, EN62384 independent, IP67 approved; Design refer to EN60335-1						
	DALI STANDARDS	Comply with IEC62386-10	1, 102, 207 for D	A-Type only				
SAFETY & EMC	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC						
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500V	/DC/25°C/70%	RH				
	EMC EMISSION Note.6	Compliance to EN55015, El	N61000-3-2 Clas	s C (@load≧	60%); EN61000-3	-3		
	EMC IMMUNITY	Compliance to EN61000-4-	2,3,4,5,6,8,11; EN	61547, light i	ndustry level (surg	e immunity Line-Line 2KV)		
OTHERS	MTBF	860.4K hrs min. Telcordia SF	R-332 (Bellcore);	228.7K hrs	min. MIL-HDBK	(-217F (25°C)		
	DIMENSION	191*63*37.5mm (L*W*H)						
	PACKING	0.97Kg; 15pcs/15.6Kg/0.87	CUFT					
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 3. 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. 4. 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. 5. The model certified for CCC(GB19510.14, GB19510.1, GB17743 and GB17625.1) is an optional model. 6. 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.							



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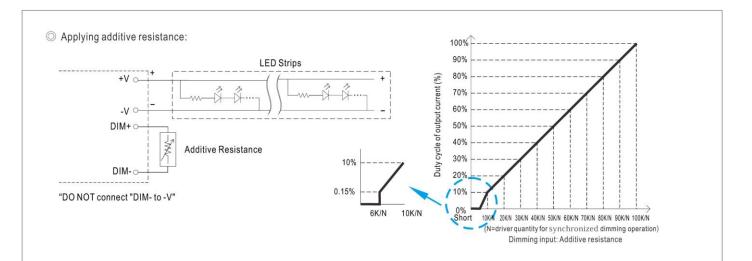


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Note: 1. Min. duty cycle of output current is about 0.15%, and the dimming input is about 6K Ω or 0.6VDC, or 10V PWM signal with 6% duty cycle.

2. The duty cycle of output current could drop down to 0% when dimming input is less than 6K Ω or less than 0.6VDC, or 10V PWM signal with duty cycle less than 6%.

※ DALI Interface (primary side; for DA-Type)

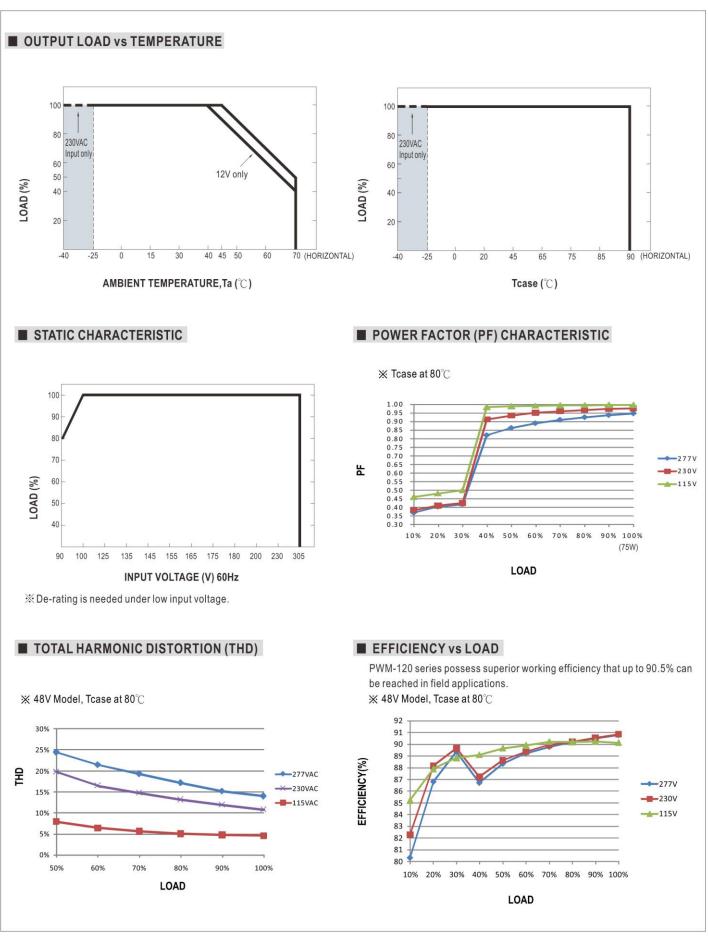
- · Apply DALI signal between DA+ and DA-.
- · DALI protocol comprises 16 groups and 64 addresses.
- · First step is fixed at 6% of output



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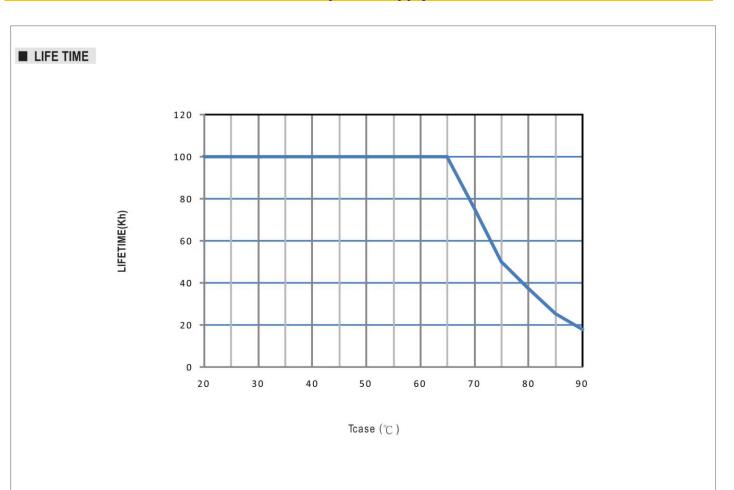
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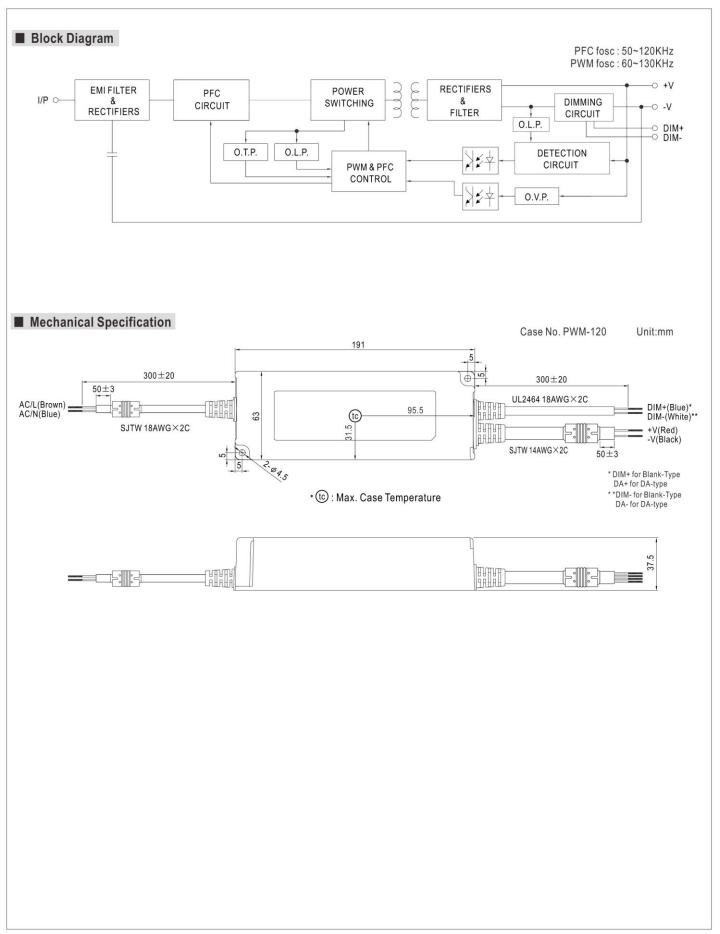
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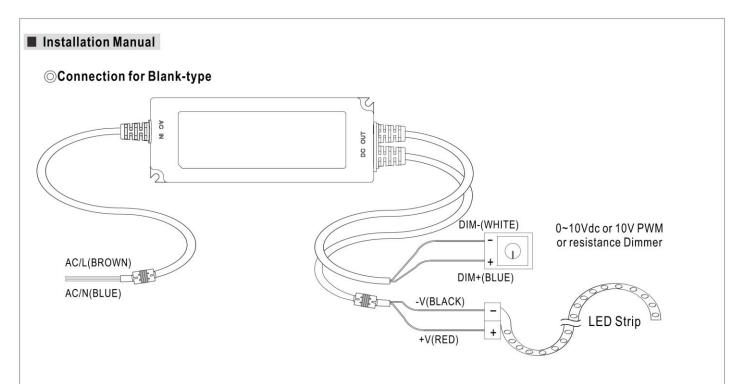


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○Cautions

- 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.
- 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.