





















Features

- · Constant voltage PWM style output with frequency up to 4KHz compliant IEEE1789-2015 no risk
- · Bluetooth Mesh Dimming Function
- · Plastic housing with class II design
- · Built-in active PFC function
- Typical lifetime>50000 hours
- 5 years warranty

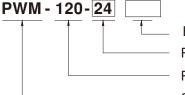
Applications

- · LED strip lighting
- · Indoor LED lighting
- · LED decorative lighting
- · LED architecture lighting
- · Intelligent lighting control

■ GTIN CODE

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

■ Model Encoding



Built-in wireless module brand and solution

Rated output voltage(12/24/48)

Rated wattage

Series name

IoT wireless Module brand and solution

Brand	Solution	Wireless standard	Note
Casambi	BLE2	Bluetooth low energy mesh 2.4GHz protocol	By request





0	PWM-120-12BLE2	PWM-120-24BLE2	PWM-120-48BLE2			
	PWM-120-12	PWM-120-24	PWM-120-48			
DC VOLTAGE	12V	24V	48V			
RATED CURRENT	10A	5A	2.5A			
RATED POWER	120W	120W	120W			
PWM FREQUENCY (Typ.)	up to 4kHz					
HOLD UP TIME (Typ.)	16ms/230VAC or 115VAC					
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.)	87.5%	90%	90%			
AC CURRENT (Typ.)	1.3A / 115VAC 0.65A / 230VAC	0.55A / 277VAC				
INRUSH CURRENT (Typ.)	COLD START 60A(twidth=520µs measured at 50% lpeak) 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					
STANDBY POWER CONSUMPTION	<1W when dimming off					
OVERLOAD	1 1					
			54 ~ 60V			
OVER VOLTAGE	·		04 00V			
OVED TEMPERATURE						
	·					
WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC					
ISOLATION RESISTANCE						
EMC EMISSION Note.6	Refer to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@load≧60%) ; BS EN/EN61000-3-3, EAC TP TC 020					
EMC IMMUNITY	Refer 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	2525.2K hrs min. Telcordia SR-332 (Bellcore); 231.9K hrs min. M	IL-HDBK-217F (25°C)			
	2525.2K hrs min. Telcordia SR-332 (I 191*63*37.5mm (L*W*H)	Bellcore); 231.9K hrs min. M	IL-HDBK-217F (25°C)			
	DC VOLTAGE RATED CURRENT RATED POWER PWM FREQUENCY (Typ.) SETUP, RISE TIME Note.2 HOLD UP TIME (Typ.) VOLTAGE RANGE Note.3 FREQUENCY RANGE POWER FACTOR (Typ.) TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) INRUSH CURRENT (Typ.) MAX. NO. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION OVERLOAD OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION WIERLESS PROTOCOL DIMMING RANGE WIERLESS DISTANCE DIMMING Note.9 WITHSTAND VOLTAGE ISOLATION RESISTANCE	DC VOLTAGE RATED CURRENT RATED POWER 120W PWM FREQUENCY (Typ.) SETUP, RISE TIME Note.2 16ms/230VAC or 115VAC VOLTAGE RANGE Note.3 POWER FACTOR (Typ.) 16ms/230VAC or 115VAC VOLTAGE RANGE Note.3 POWER FACTOR (Typ.) 17mal HARMONIC DISTORTION 17mal HARMO	PWM-120-12 PWM-120-24			

- $2.\ De\text{-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.}$
- 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. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
- 5. 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.
- 6. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
- 7. 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).
- 8. The dimming memory function needs at least 5 seconds to complete.
- 9. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.
- % Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

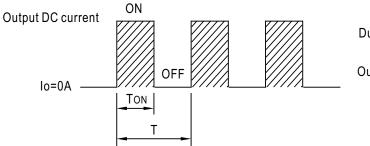


■ DIMMING OPERATION



※ Dimming principle for PWM style output

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



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

Output PWM frequency: up to 4KHz

%Bluetooth control

• To be used through APP available on Apple Store and Google Play Store for iOS and Android.

Example:





The APP is "Casambi"





■OFFICIAL WEBSITE AND ECOSYSTEM INFORMATION

CASAMBI

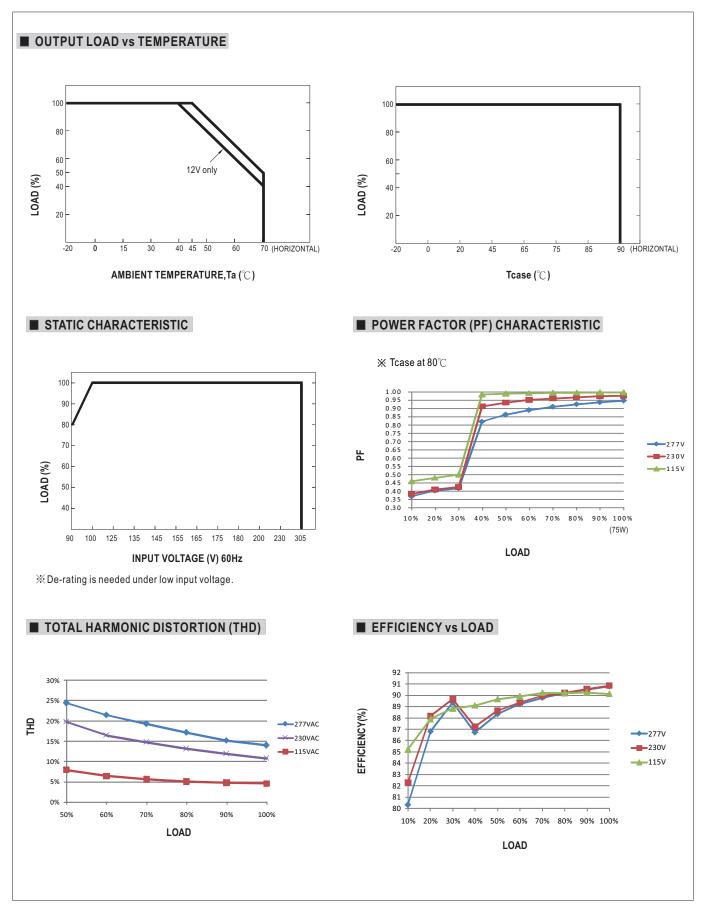
The real time Bluetooth IC temperature is shown in the APP. In case it reaches above 60 °C (equivalent to Tc 85°C), the driver will be turn off to provide a protection. In case the units is cooled down, it can be manually turn ON and back to normal operation again.

NOTE: 1. This software temperature protection is an extra independent function from driver its own hardware over temperature protection (when it is enabled, it needs re-AC power on to recover).

2.In general the software temperature protection is triggered before the hardware one when in over temperature.

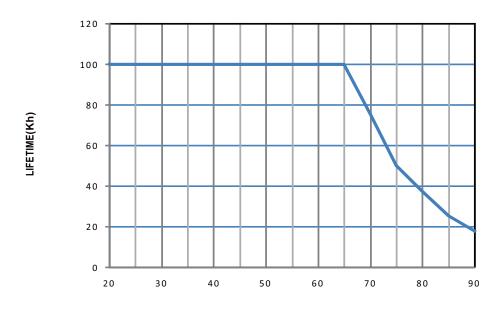
3.Website: https://www.casambi.com





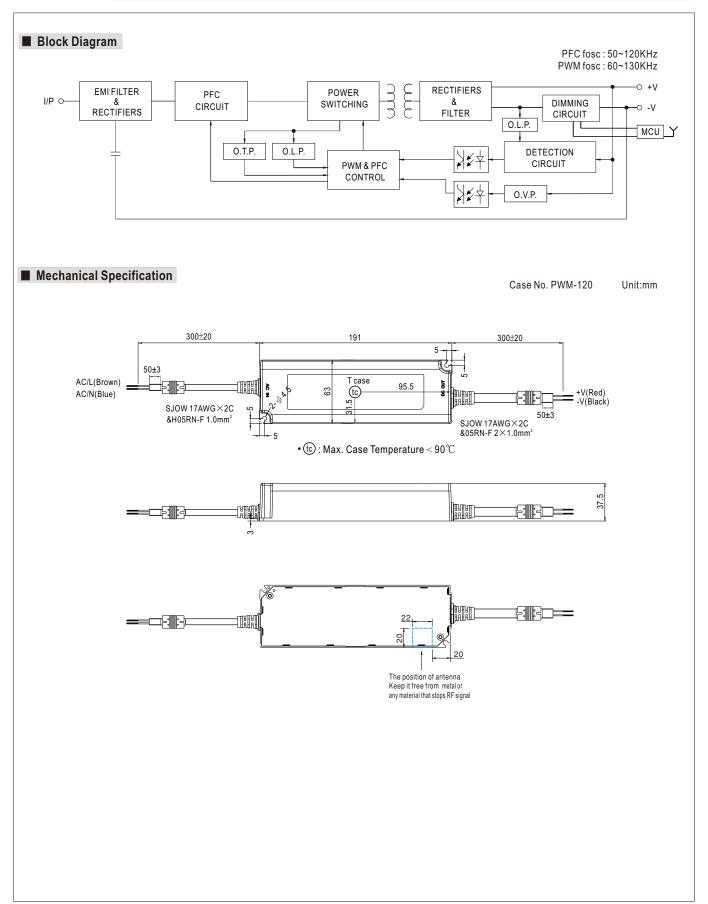


■ LIFE TIME



Tcase (°C)







Recommend Mounting Direction Installation Manual

○Cautions

AC/L(BROWN)

AC/N(BLUE)

• Before commencing any installation or maintenance work, please disconnect the power supply from the utility. Ensure that it cannot be re-connected inadvertently!

-V(BLACK)

+V(RED)

- 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.
- Tc max. is identified on the product label. Please make sure that temperature of Tc point will not exceed limit.
- 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.

LED Strip or constant

voltage LED