



# Features

- · Bluetooth wireless LED driver
- Constant voltage PWM style output with frequency up to 4kHz compliant IEEE1789-2015
- · Plastic housing with class II design
- · Built-in active PFC function
- Typical lifetime >50000 hrs and 5 years warranty

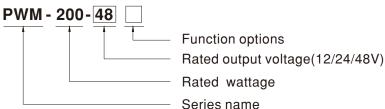
# Applications

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

# **■** GTIN CODE

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

# ■ Model Encoding



IoT wireless lighting brand and solution

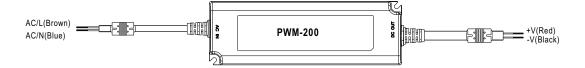
Type	Solution	Wireless standard	Note
BLE2	Casambi	Bluetooth Mesh low energy 2.4GHz protocol	By request



# **SPECIFICATION**

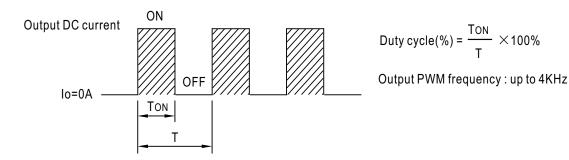
DC VOLTAGE	PWM-200-12		+			
DC VOLTAGE		PWM-200-24	PWM-200-48			
	12V	24V	48V			
RATED CURRENT	15A	8.3A	4.17A			
RATED POWER	180W	199.2W	200.2W			
DIMMING RANGE	0 ~ 100%	100.2.1				
PWM FREQUENCY (Tvp.)	4kHz					
( ) ,						
,						
11025 01 111112 (1961)	100 ~ 305VAC 142 ~ 431VDC					
VOLTAGE RANGE Note.3	(Please refer to "STATIC CHARACTERISTIC" section)					
FREQUENCY RANGE	47 ~ 63Hz					
POWER FACTOR (Typ.)	PF>0.97/115VAC, PF>0.96/230VAC, PF>0.94/277VAC @ 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.)	92%	93%	94%			
AC CURRENT (Typ.)	2.2A / 115VAC 1.1A / 230VAC	0.9A / 277VAC				
INRUSH CURRENT (Typ.)	COLD START 65A(twidth=550µs measured at 50% lpeak) at 230VAC; Per NEMA 410					
MAX. NO. of PSUs on 16A CIRCUIT BREAKER	3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC					
LEAKAGE CURRENT	<0.75mA / 277VAC					
STANDBY POWER CONSUMPTION	Standby power consumption<2.5W when dimming off  108 ~ 135% rated output power					
OVERLOAD	' '	iting, recovers automatically after fault	condition is removed			
SHORT CIRCUIT	·					
OVER VOLTAGE	13 ~ 18V	27 ~ 34V	53 ~ 65V			
	Shut down o/p voltage, re-power on	to recover after fault condition is rem	noved			
OVER TEMPERATURE	Shut down o/p voltage, re-power on	to recover after fault condition is rem	noved			
WORKING TEMP.	, , ,					
	,					
	20 ~ 95% RH non-condensing					
	-20 ~ +80°C, 10 ~ 95% RH					
	·					
-						
	Please refer to "DIMMING OPERATION" section					
	UI8750( type "HL" ), CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13,					
SAFETY STANDARDS	BS EN/EN62384 independent, EAC TP TC 004 approved					
WITHSTAND VOLTAGE	I/P-O/P: 3.75KVAC					
ISOLATION RESISTANCE	I/P-O/P: 100M Ohms / 500VDC / 25 °C / 70% RH					
EMC EMISSION	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 Line-Line 2KV),EAC TP TC 020	5,8,11; BS EN/EN61547, light industry	evel (surge immunity,			
MTBF	2413.4 K hrs min. Telcordia SR-33	32 (Bellcore); 211.1 K hrs min. MIL	-HDBK-217F (25°C)			
DIMENSION	195*68*39.5mm (L*W*H)					
PACKING	1.03Kg; 12pcs/13.4Kg/0.71CUFT					
Length of set up time is measu     De-rating may be needed und     The driver is considered as a consider	ured at first cold start. Turning ON/OFF the dre row input voltages. Please refer to "STATIC component that will be operated in combination in the final equipment manufacturers must re-quate enanwell.com//Upload/PDF/EMI_statement_e fe expectancy of >50,000 hours of operation attement on MEAN WELL's website at http://viting of 3.5°C/1000m with fanless models and tect to capacitive loads.	iver may lead to increase of the set up time. CHARACTERISTIC" sections for details. on with final equipment. Since EMC performar slify EMC Directive on the complete installation n.pdf) when Tcase, particularly (to point (or TMP, perww.meanwell.com of 5°C/1000m with fan models for operating a	n again. r DLC), is about 75°Cor less.			
	HOLD UP TIME (Typ.)  VOLTAGE RANGE Note.3  FREQUENCY RANGE  POWER FACTOR (Typ.)  TOTAL HARMONIC DISTORTION  EFFICIENCY(Typ.)  AC CURRENT (Typ.)  INRUSH CURRENT (Typ.)  MAX. NO. of PSUS on 16A CIRCUIT BREAKER  LEAKAGE CURRENT  STANDBY POWER CONSUMPTION  OVERLOAD  SHORT CIRCUIT  OVER VOLTAGE  OVER TEMPERATURE  WORKING TEMP.  MAX. CASE TEMP.  WORKING HUMIDITY  STORAGE TEMP., HUMIDITY  TEMP. COEFFICIENT  VIBRATION  WIERLESS DISTANCE  DIMMING  SAFETY STANDARDS  WITHSTAND VOLTAGE  ISOLATION RESISTANCE  EMC EMISSION  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT specially (as available on https://www.mt.  5. This series meets the typical life. Please refer to the warranty stored the complete installation, the (as available on https://www.mt.  5. This series meets the typical life. Please refer to the warranty stored the complete installation, the (as available on https://www.mt.  5. This series meets the typical life. Please refer to the warranty stored the complete installation, the (as available on https://www.mt.  5. This series meets the typical life. Please refer to the warranty stored the complete installation, the (as available on https://www.mt.  5. This series meets the typical life. Please refer to the warranty stored the complete installation, the (as available on https://www.mt.  5. This series meets the typical life. Please refer to the warranty stored the complete installation, the complete installation without permanently constituted the warranty stored the complete installation without permanently constituted the without permanently constituted the provided the constituted the warranty stored the warranty stored the constituted the provided the	SETUP, RISE TIME Note.2 1000ms, 80ms/115VAC or 230VAC HOLD UP TIME (Typ.) 10ms/230VAC or 115VAC  VOLTAGE RANGE Note.3 100 ~ 305VAC 142 ~ 431VDC (Please refer to "STATIC CHARACTE FREQUENCY RANGE 47 ~ 63Hz  POWER FACTOR (Typ.) PF>0.97/115VAC, PF>0.96/230VAC, (Please refer to "POWER FACTOR (FP).) PF>0.97/115VAC, PF>0.96/230VAC, (Please refer to "TOTAL HARMONIC DISTORTION THD < 20% (@load≥60%/115VAC, 2 (Please refer to "TOTAL HARMONIC DISTORTION) THD < 20% (@load≥60%/115VAC, 2 (Please refer to "TOTAL HARMONIC TYP.) PS 22% AC CURRENT (Typ.) 22% COLD START 65A(twidth=550 mean for CIRCUIT BREAKER 24.715VAC 1.1A / 230VAC 1.1A / 230	SETUP, RISE TIME Note.2 1000ms, 80ms/115VAC or 230VAC  HOLD UP TIME (Typ.) 10ms/230VAC or 115VAC  VOLTAGE RANGE Note.3 100 - 305VAC 142 - 431VDC [Please refer to "STATIC CHARACTERISTIC" section)  FREQUENCY RANGE 47 - 63Hz  POWER FACTOR (Typ.) 2P-0.97/115VAC, PF-0.96/230VAC, PF-0.94/277VAC @ full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)  TITLE **209% (@load&80%*/115VAC, 230VAC; @load&75%*/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION" section)  TITLE **209% (@load&80%*/115VAC, 230VAC; @load&75%*/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION" section)  EFFICIENCY(Typ.) 22% 93%  GC CURRENT (Typ.) 22.4 / 115VAC 1.14 / 230VAC 0.93 / 277VAC  INRUSH CURRENT (Typ.) 2.15VAT 156A(twidth-550)∞ measured at 50% (pseak) at 230VAC; Per NEI  MAX. NO. of PSUs on 16A CIRCUIT BREAKER  LEAKAGE CURRENT 50.75mA / 277VAC  STANDBY  POWER CONSUMPTION 51 / 277VAC  STANDBY  POWER CONSUMPTION 108 - 135% rated output power  Hiccup mode or Constant current limiting, recovers automatically after fault 50 × 10 × 10 × 10 × 10 × 10 × 10 × 10 ×			

# ■ DIMMING OPERATION



#### **X** Dimming principle for PWM style output

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



#### **※**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**

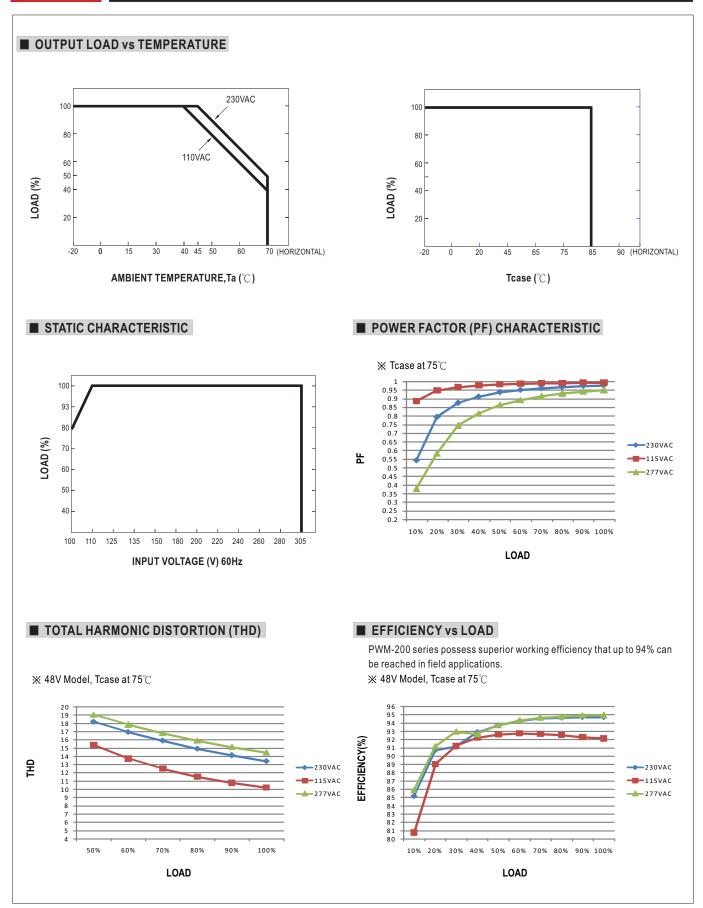
The real time Bluetooth IC temperature is shown in the APP. In case it reaches above 65 °C (equivalent to Tc 80°C), the driver will be turn off to provide a protection. In case the units is cooled down, it can be manually turn ON and back to normal operation again.

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.

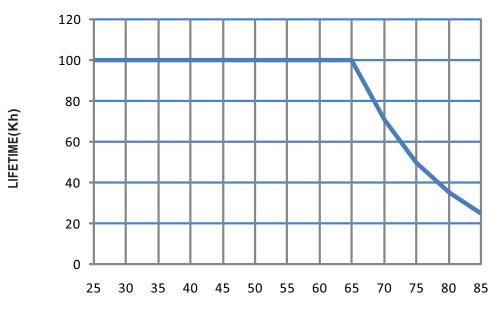
3.Website: https://www.casambi.com

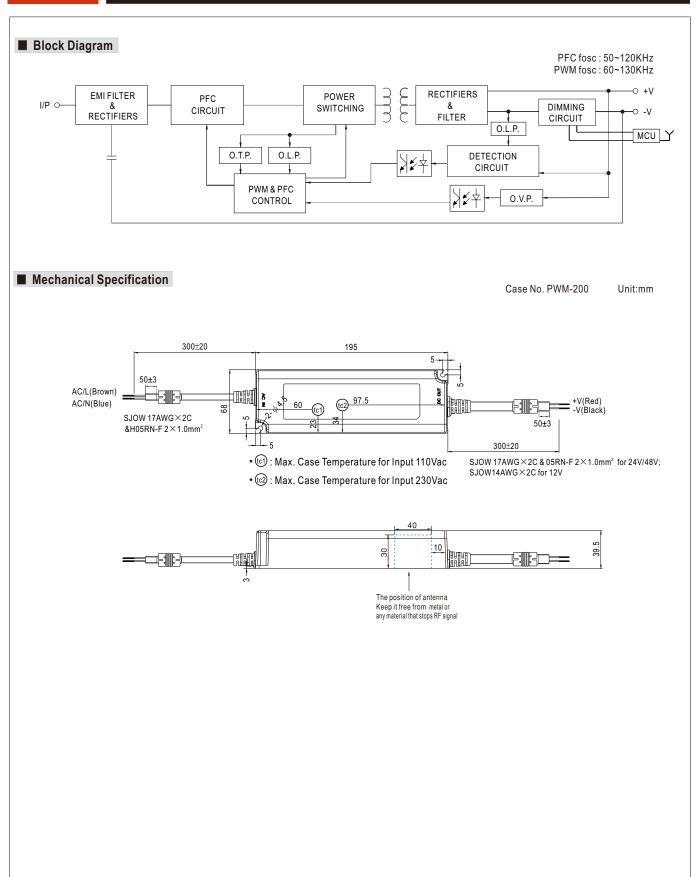












or constant

voltage LED bulb



# ■ Recommend Mounting Direction ■ Installation Manual 둳

### **©**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.