



Features

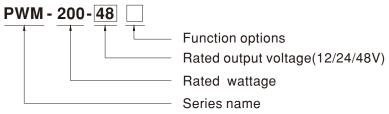
- · Bluetooth wireless LED driver
- Constant voltage PWM style output with frequency up to 4kHz compliant IEEE1789-2015
- · Plastic housing with class II design
- · Built-in active PFC function
- Fully encapsulated with IP67 level(except SVA-type)
- Typical lifetime >50000 hrs and 5 years warranty

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.

Description

Model Encoding



IoT wireless lighting brand and solution

| Type | Solution | Wireless standard | Note |
|------|----------|--|------------|
| BLE | Casambi | Bluetooth Mesh low energy 2.4GHz protocol | By request |
| TY1 | Tuya | Bluetooth Mesh low energy 2.4GHz protocol | By request |
| SVA | Silvair | Bluetooth Mesh low energy 2.4GHz protocol | By request |
| WZ1 | WiZ | Bluetooth Mesh low energy+Wifi 2.4GHz protocol | By request |

200W Wireless Lighting Constant Voltage LED Driver Solution PWM-200 IoT Series

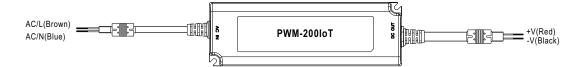
SPECIFICATION

| SPECIFIC | ATION | | | | | | |
|-------------|--|--|--|----------------------|------------|--|--|
| MODEL | | | PWM-200-12 | PWM-200-24 | PWM-200-48 | | |
| | DC VOLTAGE | | 12V | 24V | 48V | | |
| H | RATED CURR | ENT | 15A | 8.3A | 4.17A | | |
| | RATED POWE | R | 180W | 199.2W | 200.2W | | |
| | DIMMING RAN | | 0~100% | | | | |
| | PWM FREQUE | | 4kHz for BLE, 2.5kHz for TY1, 1kHz for SVA, 200Hz for WZ1 | | | | |
| | | (• . , | 1000ms, 80ms/115VAC or 230VAC for BLE, WZ1 and TY1; 2000ms, 80ms/115VAC or 230VAC for SVA | | | | |
| | , | | | | | | |
| | HOLD UP TIM | ⊏ (Typ.) | 10ms/230VAC or 115VAC 100 ~ 305VAC 142 ~ 431VDC | | | | |
| | VOLTAGE RA | NGE Note.3 | (Please refer to "STATIC CHARACTERISTIC" section) | | | | |
| | FREQUENCY | RANGE | 47 ~ 63Hz | ENGITO Section, | | | |
| | TREGOLITOT | TOTAL | PF>0.97/115VAC, PF>0.96/230VAC, PF>0.94/277VAC @ full load | | | | |
| | POWER FACTOR (Typ.) | | (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) | | | | |
| | TOTAL HARMON | IC DISTORTION | THD<20%(@load≧60%/115VAC, 230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION" section) | | | | |
| | EFFICIENCY | WZ1 Type | 91.5% | 92.5% | 93.5% | | |
| INPUT - | EFFICIENCY (Typ.) | Other Type | | | | | |
| | | ,, | 92% 2.2A / 115VAC 1.1A / 230VAC | 93% 0.9A / 277VAC | 94% | | |
| | AC CURRENT | | COLD START 65A(twidth=550µs measured at 50% lpeak) at 230VAC; Per NEMA 410 | | | | |
| | INRUSH CURI | , , , | | | | | |
| | MAX. NO. of P CIRCUIT BRE | | 3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC | | | | |
| | LEAKAGE CU | IRRENT | <0.75mA/277VAC | | | | |
| | STANDBY | | <1.5W(except for WZ1-type); <2.5W(for WZ1-type) | | | | |
| | POWER CON | SUMPTION | , , , , , , , , , , , , , , , , , , , | | | | |
| | OVERLOAD | | 108 ~ 135% rated output power Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed | | | | |
| | SHORT CIRCU | UIT | Shut down o/p voltage, re-power on to recover | | | | |
| PROTECTION | OVER VOLTAGE | | 13 ~ 18V | 27 ~ 34V | 53 ~ 65V | | |
| FROILCIION | | | | 1 | | | |
| | OVER TEMPE | DATIIDE | Shut down o/p voltage, re-power on to recover after fault condition is removed Shut down o/p voltage, re-power on to recover after fault condition is removed | | | | |
| | | - | | | | | |
| | WORKING TE | | Tcase=-20 ~ +85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) | | | | |
| | MAX. CASE T | | Tcase=+85℃ | | | | |
| ENVIRONMENT | WORKING HU | | 20 ~ 95% RH non-condensing | | | | |
| | STORAGE TEN | , | · | | | | |
| | TEMP. COEFF | ICIENI | ±0.03%/°C (0~50°C) | | | | |
| | VIBRATION | | 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes | | | | |
| | WIERLESS PF | | Bluetooth low energy 2.4GHz protocol | | | | |
| FUNCTION | WIERLESS DI | STANCE | Up to 20m | | | | |
| | DIMMING N | Note.10 | Please refer to "DIMMING OPERATION" section | | | | |
| SAFETY & | SAFETY STAND | DARDS Note.5 | UL8750(type "HL"), CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13,BS EN/EN62384 independer IP67(except SVA-type), EAC TP TC 004,GB19510.1,GB19510.14 approved; Design refer to BS EN/EN60335-1, BIS | | | | |
| | WITHSTAND \ | VOLTAGE | I/P-O/P: 3.75KVAC | | | | |
| | ISOLATION R | ESISTANCE | I/P-O/P: 100M Ohms / 500VDC / 25 °C / 70% RH | | | | |
| | EMC EMISSIO | N Note.6 | $ \label{eq:compliance} \text{Compliance to BS EN/EN55015, BS EN/EN61000-3-2} \ \ \text{Class C (@load} \\ \ \ \ \ \ \ \ \ \ \ \ \ $ | | | | |
| | EMC IMMUNIT | ГҮ | Compliance 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 02 | | | | |
| OTHERS | MTBF | | 712.8 K hrs min. Telcordia SR-332 (Bellcore); 178.7 K hrs min. MIL-HDBK-217F (25°C) | | | | |
| | DIMENSION | | 195*68*39.5mm (L*W*H) | | | | |
| | PACKING | | 1.03Kg; 12pcs/13.4Kg/0.71CUFT | | | | |
| NOTE | 2. Length of se 3. De-rating ma 4. The driver is by the comp 5. This series n 6. Please refer 7. The ambient 8. For any appl https://www. 9. It is not reco 10. The dimmir | All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 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. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 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 (© 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 IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf It is not recommended to connect to capacitive loads The driver is considered at least 5 seconds to complete. The matching mode of TY1 type is on-off-on-off-on by AC or DC power. | | | | | |
| | | - | /1 type is on-off-on-off-on by AC or DC power. er: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx | | | | |

 $\hbox{$\%$ Product Liability Disclaimer: For detailed information, please refer to $https://www.meanwell.com/serviceDisclaimer.aspx}$$

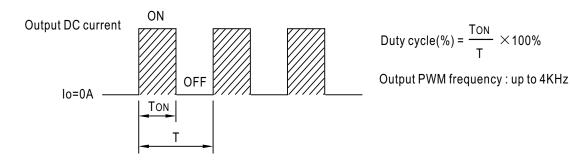


■ DIMMING OPERATION



※ Dimming principle for PWM style output

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



※Bluetooth control

• To be used through APP available on Apple Store and Google Play Store for iOS and Android. Search: BLE with Casambi/TY1 with Smart Life/SVA with Silvair/WZ1 with WiZ Example:





The APP for BLE type is "Casambi" The APP for TY1 type is "Smart Life" The APP for SVA type is "Silvair" The APP for WZ1 type is "WiZ CN"





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■ OFFICIAL WEBSITE AND ECOSYSTEM INFORMATION

CASAMBI

The real time Bluetooth IC temperature is shown in the APP. In case it reaches above 76 °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



Adding new device:

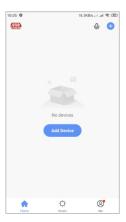
1. Install the app on the mobile device. Please go to the App Store for iOS or Google Play for Android, and search for "Smart Life" to download.



- 2. Turn on the phone's Bluetooth and open the "Smart Life" app.
- 3. Register an account. Register an account to be able to use the dedicated application. If you have already registered an account, please enter your country/region, account and password to login.



4. Click "Add Device" and select "Light Source(BLE)" from the lighting type.





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5.Reset the device. Please follow the 3 steps in the diagram to complete the setup.









6. Wait for the system to search for the device and connect it. When the steps are finished, click "Done" to connect successfully.









NOTE: 1.Website: https://www.tuya.com

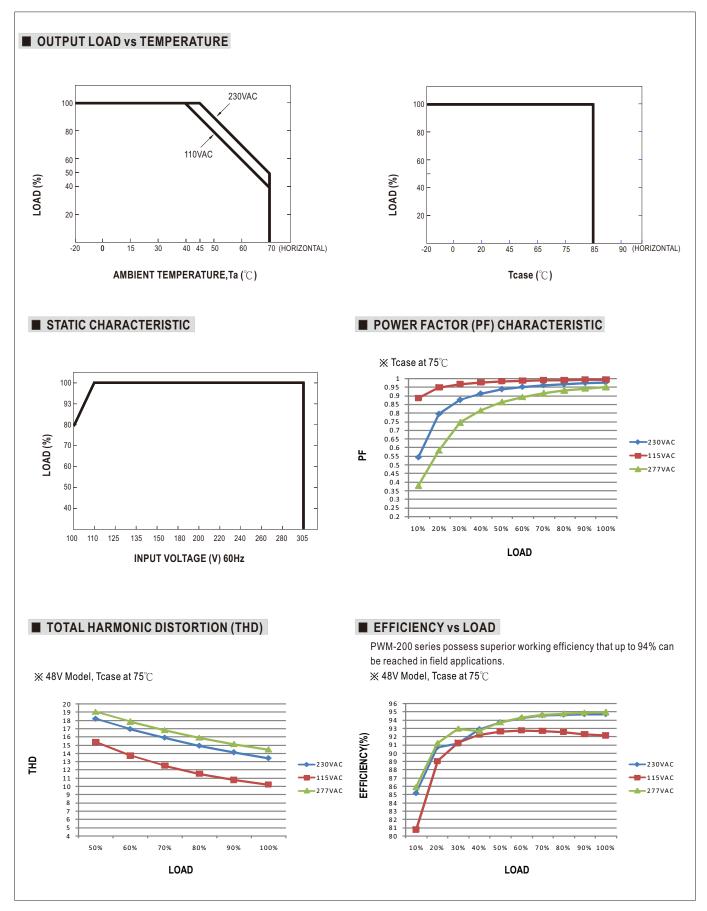
SILVAIR

NOTE: 1.Website: https://www.silvair.com



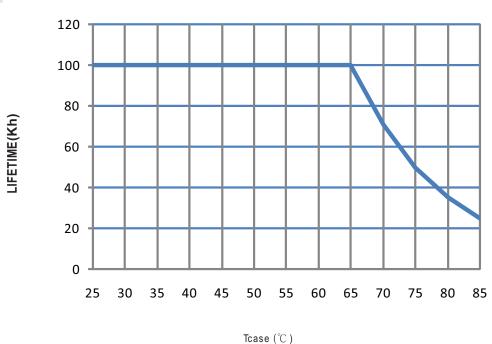
NOTE: 1. Website: https://www.wizconnected.com



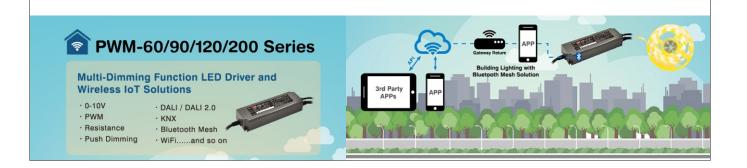




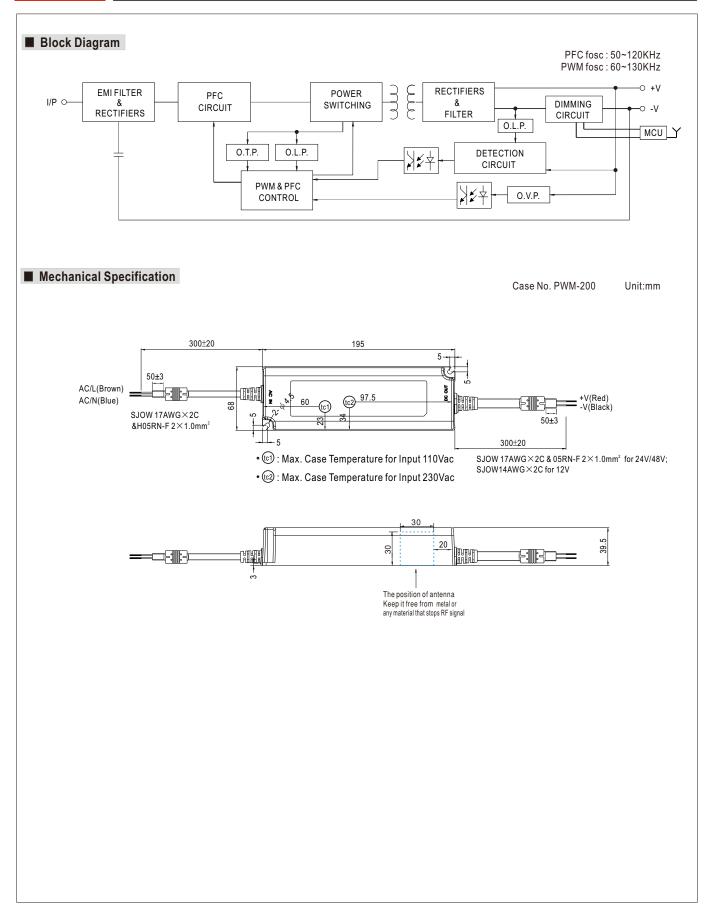




■ Bluetooth mesh LED driver for intelligent lighting Application

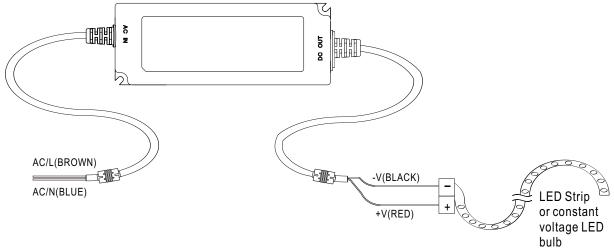








■ Recommend Mounting Direction ■ Installation Manual



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