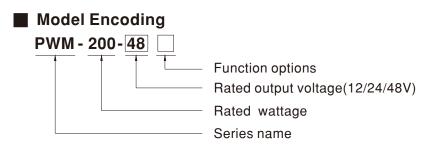


Description

PWM-200 IoT series is a 200W 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-200IoT operates from $100 \sim 305$ VAC and offers models with different rated voltage ranging between 12V and 48V. Thanks to the high efficiency up to 94%, with the fanless design, the entire series is able to operate for -20° C $\rightarrow +85^{\circ}$ C case temperature under free air convection. The entire series is rated with IP67 ingress protection level and suitable to work for dry, damp or wet locations. PWM-200 IoT can provide dimming level low to 0.4% suitable for low light level applications e.g. cinema. The output frequency is up to 4kHz which compliant to IEEE1789-2015 requirement for no risk providing a great solution for health concern due to light flickering.



IoT wireless lighting brand and solution

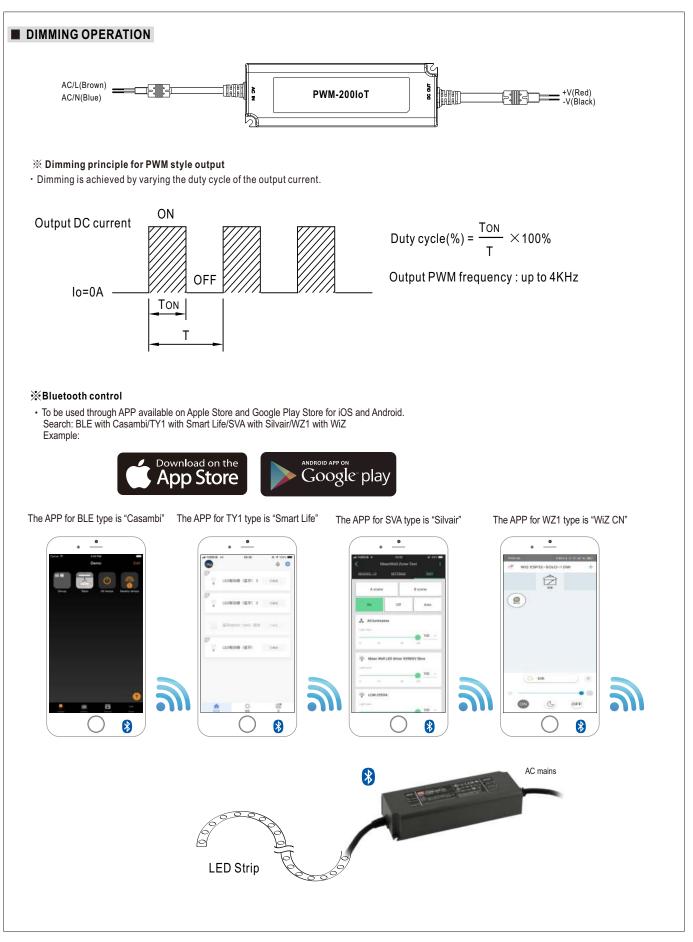
Туре	Solution	Wireless standard	Note
BLE	Casambi	Bluetooth Mesh low energy 2.4GHz protocol	By request
TY1	Tuya	Bluetooth Mesh low energy 2.4GHz protocol	By request
SVA	Silvair	Bluetooth Mesh low energy 2.4GHz protocol	By request
WZ1	WiZ	Bluetooth Mesh low energy+Wifi 2.4GHz protocol	By request



SPECIFICATION

MODEL			PWM-200-12	PWM-200-24	PWM-200-48			
	DC VOLTAGE		12V	24V	48V			
	RATED CURR	ENT	15A	8.3A	4.17A			
	RATED POWE	R	180W	199.2W	200.2W			
	DIMMING RANGE		0~100%					
OUTPUT	PWM FREQUENCY (Typ.)		4kHz for BLE, 2.5kHz for TY1, 1kHz for SVA, 200Hz for WZ1					
	SETUP, RISE	TIME Note.2	1000ms, 80ms/115VAC or 230VAC for BLE, WZ1 and TY1; 2000ms, 80ms/115VAC or 230VAC for SVA					
	HOLD UP TIME (Typ.)		10ms/230VAC or 115VAC					
			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					
	FOWER FACTOR (Typ.)		(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 WZ1 Type		91.5% 92.5% 93.5%					
INPUT	(Typ.)	Other Type		93%	94%			
	AC CURRENT		2.2A / 115VAC 1.1A / 230VAC	0.9A / 277VAC	3470			
	1				EMA 410			
	INRUSH CURRENT (Typ.) MAX. NO. of PSUs on 16A		COLD START 65A(twidth=550 us measured at 50% lpeak) at 230VAC; Per NEMA 410					
	CIRCUIT BRE		3 units (circuit breaker of type B) / 6 ur	nits (circuit breaker of type C) at 230VA	C			
-	LEAKAGE CURRENT		<0.75mA / 277VAC					
	STANDBY		Standby power consumption<2.5W v	vhen dimming off				
	POWER CONSUMPTION		108 ~ 135% rated output power	v				
	OVERLOAD		Hiccup mode or Constant current lim	iting, recovers automatically after fau	It condition is removed			
·	SHORT CIRCUIT		Shut down o/p voltage, re-power on t	* .				
PROTECTION			13 ~ 18V	27 ~ 34V	53 ~ 65V			
	OVER VOLTAGE		Shut down o/p voltage, re-power on	to recover after fault condition is re	moved			
	OVER TEMPERATURE		Shut down o/p voltage, re-power on to recover after fault condition is removed					
	WORKING TEMP.		Tcase=-20 ~ +85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)					
	MAX. CASE T		Tcase=+85°C					
			20 ~ 95% RH non-condensing					
ENVIRONMENT	STORAGE TEN		-20 ~ +80°C, 10 ~ 95% RH					
	TEMP. COEFF		±0.03%/°C (0~50°C)					
	VIBRATION		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes					
	WIERLESS PROTOCOL		Bluetooth low energy 2.4GHz protocol					
FUNCTION	WIERLESS DI		Up to 20m					
		lote.10	Please refer to "DIMMING OPERATION" section					
	SAFETY STAND		UL8750(type "HL"), CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13, BS EN/EN62384 independent, IP67(except SVA and BLE type), EAC TP TC 004, GB19510.1,GB19510.14 approved; Design refer to BS EN/EN60335-1, BIS					
	WITHSTAND \	/OLTAGE	I/P-O/P: 3.75KVAC					
SAFETY &	ISOLATION R	ESISTANCE	I/P-O/P: 100M Ohms / 500VDC / 25	°C / 70% RH				
EMC	EMC EMISSIO	N Note.6	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@load≧60%) ; BS EN/EN61000-3-3, GB/T 17743, GB17625.1, EAC TP TC 020					
	EMC IMMUNIT	ſY	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 020					
	MTBF		2413.4 K hrs min. Telcordia SR-332 (Bellcore); 211.1 K hrs min. MIL-HDBK-217F (25°C)					
OTHERS	DIMENSION		195*68*39.5mm (L*W*H)					
	PACKING		1.03Kg; 12pcs/13.4Kg/0.71CUFT					
NOTE	 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. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) 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/ED_EN.pdf It is not recommended to connect to capacitive loads. The dimming memory function of TY1 type needs at least 5 seconds to complete. The dimming mode of TY1 type is on-off-on by AC or DC power. 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. 							







■ 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



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.

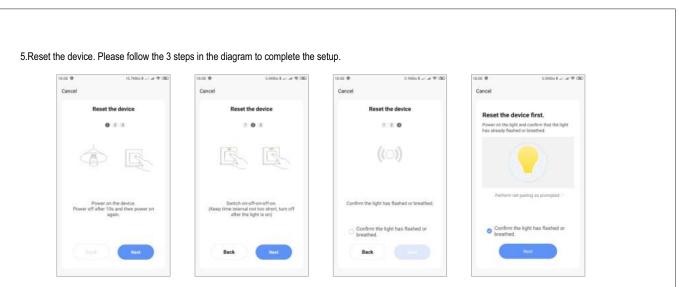
If you have already registered an account, please enter your country/region, account and password to login.



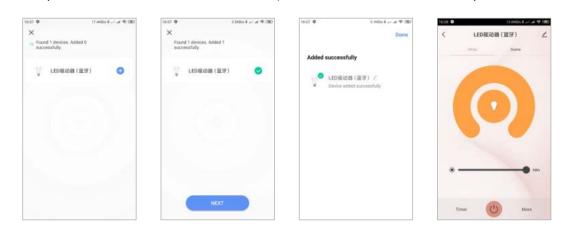
4. Click "Add Device" and select "Light Source(BLE)" from the lighting type.

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			Security & Video Sur	Brip Lights (Zigbes)		
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Harte	Smith	7046	Francisco			





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

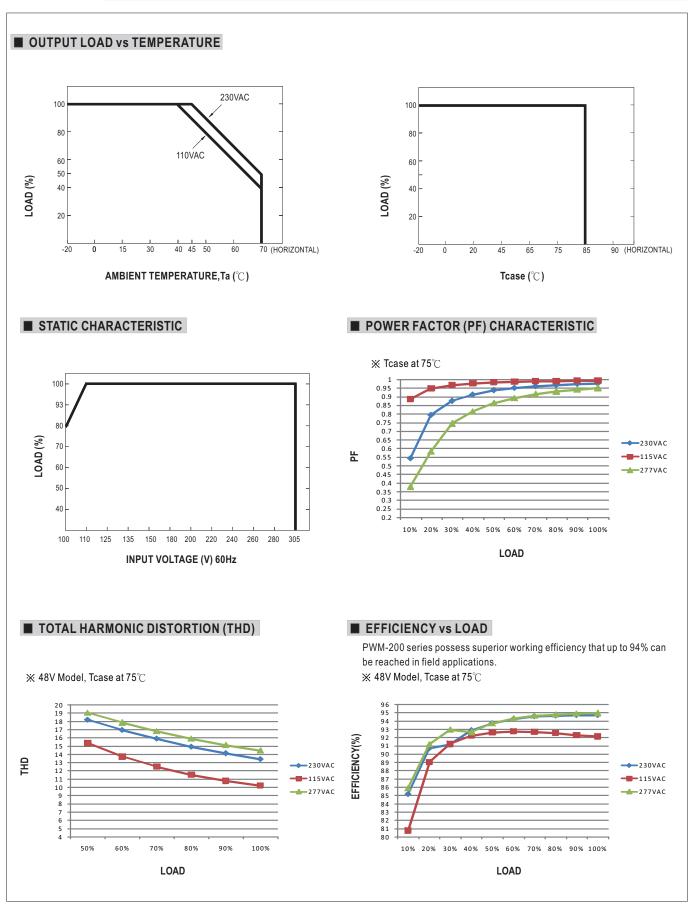
NOTE: 1.Website: https://www.silvair.com

WiZ

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

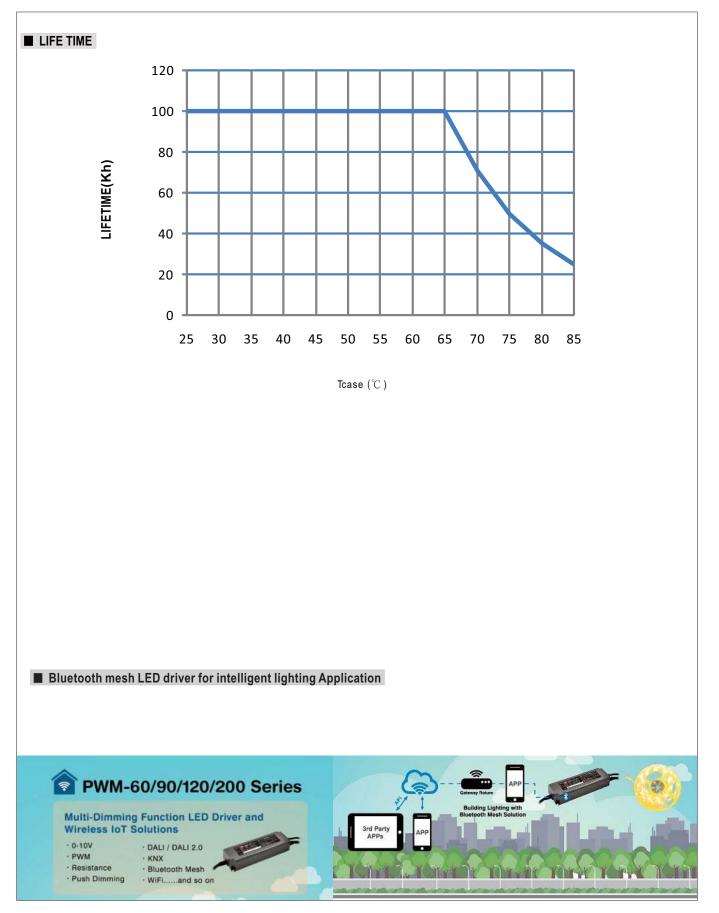


200W Wireless Lighting Constant Voltage LED Driver Solution **PWM-200 IoT** series



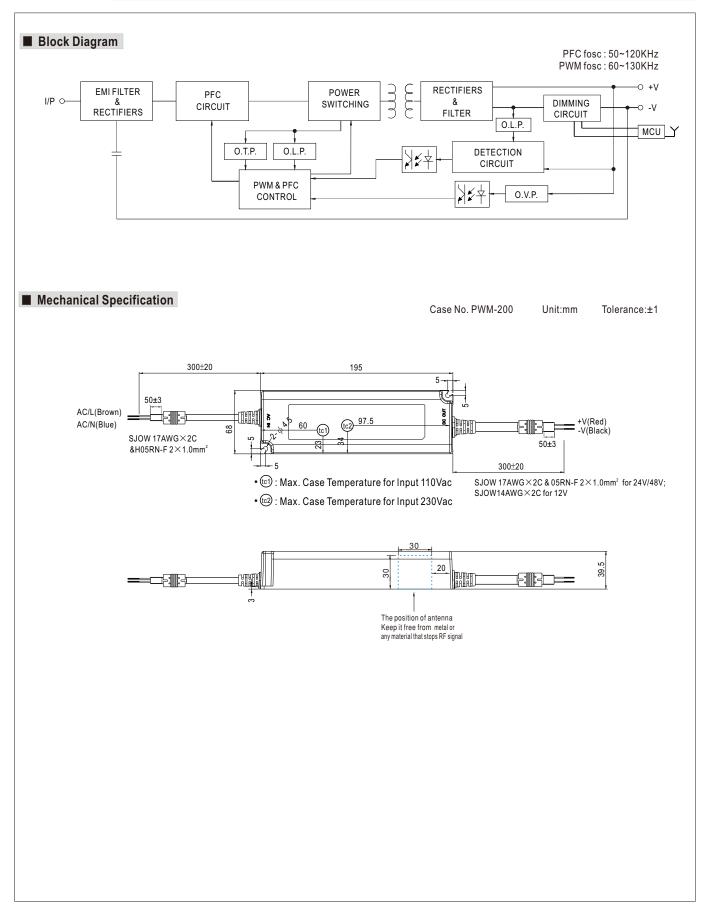


200W Wireless Lighting Constant Voltage LED Driver Solution **PWM-200 IoT** series



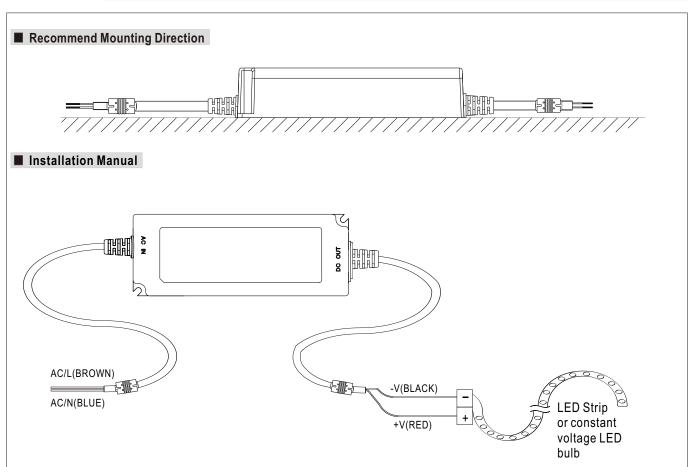


200W Wireless Lighting Constant Voltage LED Driver Solution **PWM-200 IoT** series





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