

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

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 RAN	IGE	0~100%			
OUTPUT	PWM FREQUE	NCY (Typ.)	4kHz for BLE, 2.5kHz for TY1, 1kHz for SVA, 200Hz for WZ1			
	SETUP, RISE					
	HOLD UP TIM		10ms/230VAC or 115VAC			
		-(.)p./	100 ~ 305VAC 142 ~ 431VDC			
	VOLTAGE RA	NGE Note.3	(Please refer to "STATIC CHARAC			
	FREQUENCY RANGE		47 ~ 63Hz			
			PF>0.97/115VAC, PF>0.96/230VAC, PF>0.94/277VAC @ full load			
	POWER FACT	OR (Typ.)	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)			
	TOTAL HARMONIC DISTORTION THD<20%(@load≧60%/115VAC, 230VAC; @load≧75%/277VAC)				C)	
	TOTAL HARMON	IC DISTORTION	(Please refer to "TOTAL HARMC		'	
INPUT	EFFICIENCY	WZ1 Type	91.5%	92.5%	93.5%	
	(Тур.)	Other Type	92%	93%	94%	
	AC CURRENT	(Тур.)	2.2A / 115VAC 1.1A / 230VA	C 0.9A / 277VAC		
	INRUSH CUR		COLD START 65A(twidth=550µs m	A(twidth=550, s measured at 50% Ipeak) at 230VAC; Per NEMA 410		
	MAX. NO. of P	SUs on 16A	units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC			
	CIRCUIT BRE	AKER		anna (onconcoreaker or type C) al		
	LEAKAGE CU	RRENT	<0.75mA/277VAC			
	STANDBY POWER CON	SUMPTION	Standby power consumption<2.5V	V when dimming off		
			108 ~ 135% rated output power			
	OVERLOAD		Hiccup mode or Constant current I	imiting, recovers automatically a	fter fault condition is removed	
	SHORT CIRCU	JIT	Shut down o/p voltage, re-power o	in to recover		
PROTECTION			13 ~ 18V	27 ~ 34V	53 ~ 65V	
	OVER VOLTA	GE	Shut down o/p voltage, re-power	on to recover after fault condition	on is removed	
	OVER TEMPE	ERATURE Shut down o/p voltage, re-power on to recover after fault condition is removed		on is removed		
	WORKING TE	MP.	Tcase=-20 ~ +85°C (Please refer t	to " OUTPUT LOAD vs TEMPER/	ATURE" section)	
	MAX. CASE T	EMP.	Tcase=+85℃		,	
	WORKING HUMIDITY 20 ~ 95% RH non-condensing					
ENVIRONMENT	STORAGE TEMP., HUMIDITY					
	TEMP. COEFFICIENT		±0.03%/°C (0~50°C)			
	VIBRATION		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes			
	WIERLESS PR		Bluetooth low energy 2.4GHz pro	6,,,		
FUNCTION	WIERLESS DI		Up to 20m			
i onorion		lote.10	Please refer to "DIMMING OPER	ATION" section		
	SAFETY STAND		UL8750(type "HL"), CSA C22.2 M	No. 250.13-12; ENEC BS EN/EN 67(except SVA-type), EAC TP T	l61347-1, BS EN/EN61347-2-13, C 004,GB19510.1,GB19510.14 approved;	
	WITHSTAND \	/OLTAGE	I/P-O/P: 3.75KVAC			
SAFETY &	ISOLATION R		I/P-O/P: 100M Ohms / 500VDC /	25°C/70% RH		
EMC	EMC EMISSIO			3S EN/EN61000-3-2 Class C (@	load≧60%) ; BS EN/EN61000-3-3,	
	EMC IMMUNIT	ſY	Compliance to BS EN/EN61000-4 Line-Line 2KV),EAC TP TC 020	-2,3,4,5,6,8,11; BS EN/EN61547	, light industry level (surge immunity,	
	MTBF		2413.4 K hrs min. Telcordia SR	-332 (Bellcore); 211.1 K hrs mi	n. MIL-HDBK-217F (25°C)	
OTHERS	DIMENSION		195*68*39.5mm (L*W*H)			
	PACKING		1.03Kg; 12pcs/13.4Kg/0.71CUFT			
NOTE	 Length of set if 3. De-rating may The driver is c by the completed of the series metric of the series metric for the series of the	up time is measure to be needed undo to be needed undo considered as a a ete installation, tit be the varranty st emperature dera ation note and II mended to comn g memory function g mode of TY1 tu iriements of the l	mentioned are measured at 230VAC input ured at first cold start. Turning ON/OFF the er low input voltages. Please refer to "STA component that will be operated in combin ne final equipment manufacturers must re- fe expectancy of >50,000 hours of operati- atement on MEAN WELL's website at http: ting of 3.5°C/1000m with fanless models a P water proof function installation caution, load/PDF/LED_EN.pdf ect to capacitive loads. In of TY1 type needs at least 5 seconds to type is on-off-on-off-on by AC or DC power atest ErP regulation for lighting fixtures, th connected to the mains.	e driver may lead to increase of the set TIC CHARACTERISTIC" sections for c ration with final equipment. Since EMC equalify EMC Directive on the complete on when Tcase, particularly (c) point (c point (c) point (c)	up time. details. performance will be affected installation again. or TMP, per DLC), is about 75°Cor less. operating altitude higher than 2000m(6500ft). sing.	







■ 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.





:06 ♥ 16.7KB/s ≵(16:06 ♥ 0.0KB/s ≱ arl and ♥; ③	16:06 ♥ 0.1KB/s \$ ari _ati ♥ (50)	16:06 0 0.0KB/s ≱ ari and Ф (560
Cancel	Cancel	Cancel	Cancel
Reset the device	Reset the device	Reset the device	Reset the device first.
0 2 3	1 🛛 3	1 2 🛛	Power on the light and confirm that the light has already flashed or breathed.
		(())	
Power on the device. Power off after 10s and then power on again.	Switch on-off-on-off-on. (Keep time interval not too short, turn off after the light is on)	Confirm the light has flashed or breathed.	Perform net pairing as prompted. >
		Confirm the light has flashed or breathed.	 Confirm the light has flashed or breathed.
Back	Back	Back	Next

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









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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.
- 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.