

Наличие и актуальные цены на

PWM-200-48DA2

https://www.mean-

well.ru/store/PWM-200-48DA2/































Features

- Constant voltage PWM style output with frequency up to 4kHz design compliant IEEE1789-2015(Blank type)
- Plastic housing with class II and PFC design
- · Emergency lighting application is available according to IEC61347-2-13
- Standby power consumption <0.5W
- Fully encapsulated with IP67 level
- Function options: 3 in 1 dimming (dim-to-off and Isolated Design)/DALI-2
- · Minimum dimming level 0.2% for DA2 type
- Typical lifetime >50000 hrs and 5 years warranty

Applications

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

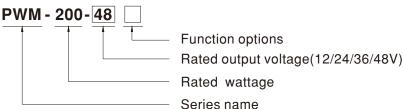
GTIN CODE

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

Description

PWM-200 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-200 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 -40 $^{\circ}$ C \sim +85 $^{\circ}$ C case temperature under free air convection. The entire series is rated with IP67 ingress protection level and is suitable to work for dry, damp or wet locations. PWM-200 is equipped with dimming function that varies the duty cycle of the output, providing great flexibility for LED strips applications.

Model Encoding



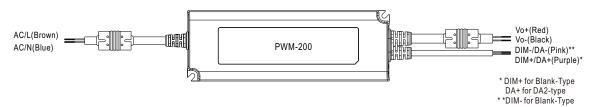
Type	IP Level	Function	Note
Blank	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In stock
DA2	IP67	Push Dimming or DALI-2 control technology.	In stock



MODEL		PWM-200-12	PWM-200-24	PWM-200-36	PWM-200-48		
	DC VOLTAGE	12V	24V	36V	48V		
OUTPUT	RATED CURRENT	15A	8.3A	5.55A	4.17A		
	RATED POWER	180W	199.2W	199.8W	200.1W		
	DIMMING RANGE	0~100%					
	PWM FREQUENCY (Typ.)	4kHz for Blank type; 2.5kHz for DA2 type					
	SETUP, RISE TIME Note.2	500ms, 80ms/230VAC or 115VAC					
	HOLD UP TIME (Typ.)	10ms/230VAC or 115VAC					
INPUT	VOLTAGE RANGE Note.3	100 ~ 305VAC 142 ~ 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%/1′ (Please refer to "TOTAL H.					
	EFFICIENCY (Typ.)	92%	93%	94%	94%		
	AC CURRENT (Typ.)	2.2A / 115VAC 1.1A / 2	230VAC 0.9A / 277\	/AC			
	INRUSH CURRENT (Typ.)	COLD START 65A(twidth=550 s measured at 50% lpeak) at 230VAC; Per NEMA 410					
	MAX. NO. of PSUs on 16A CIRCUIT BREAKER	3 units (circuit breaker of typ	e B) / 5 units (circuit break	ker of type C) at 230VAC			
	LEAKAGE CURRENT	<0.75mA / 277VAC					
	POWER CONSUMPTION	standby power consumption 108 ~ 135% rated output po		ff			
	OVERLOAD			utomatically after fault conditi	ion is removed		
	SHORT CIRCUIT	Shut down o/p voltage, re-power on to recover (except for DA2-type) Hiccup mode,recovers automatically after fault condition is removed (only for DA2-type)					
	OVER VOLTAGE	13 ~ 18V 27 ~ 34V 41 ~ 49V 53 ~ 65V Shut down o/p voltage, re-power on to recover after fault condition is removed					
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover after fault condition is removed					
	WORKING TEMP.	Tcase=-40 ~ +85°C (Please	e refer to " OUTPUT LOA	D vs TEMPERATURE" section	າ)		
	MAX. CASE TEMP.	Tcase=+85°C					
	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)					
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes					
SAFETY & EMC	SAFETY STANDARDS 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 independent, IP67, EAC TP TC 004,GB19510.1,GB19510.14, IS15885(Part2/Sec13)(except for 36V) approved; Design refer to BS EN/EN60335-1, According to BS EN/EN61347-2-13 appendix J suitable for emergency installation					
	DALI STANDARDS	Comply with IEC62386-101, 102, 207, 251 for DA2 Type only, Device type 6(DT6)					
	WITHSTAND VOLTAGE	I/P-O/P: 3.75KVAC; I/P-DA	: 1.5KVAC; O/P-DA:1.5K	VAC			
	ISOLATION RESISTANCE	I/P-O/P: 100M Ohms / 500	VDC / 25°C / 70% RH				
	EMC EMISSION 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 IMMUNITY	Line-Line 2KV),EAC TP TC	020	S EN/EN61547, light industry			
OTHERS	MTBF		dia SR-332 (Bellcore) ;17	8.7K hrs min. MIL-HDBK-2	217F (25°C)		
	DIMENSION	195*68*39.5mm (L*W*H)					
	PACKING	1.03Kg; 12pcs/ 13.4Kg/	0.71CUFT				
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. 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. 3. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 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°Cor 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. 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 9. It is not recommended to connect to capacitive loads 10. Based on IEC 62386-101/102 DALI power on timing and interruption regulations, the set up time needs to test with a DALI controller which can support for DALI power on function, otherwise the set up time will be higher than 0.5 second for DA2 type. 11. 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. 3. Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx						

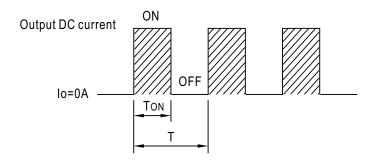
DA- for DA2-type

■ DIMMING OPERATION



imes Dimming principle for PWM style output

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



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

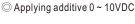
100%

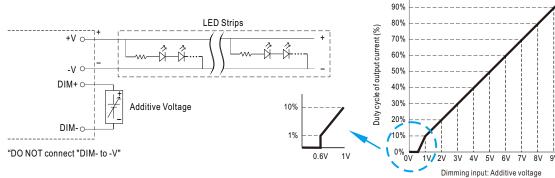
100%

Output PWM frequency: 4KHz fixed (Blank type) 2.5KHz fixed (DA2 type)

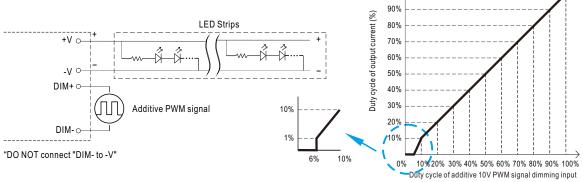
※ 3 in 1 dimming function (for Blank-Type)

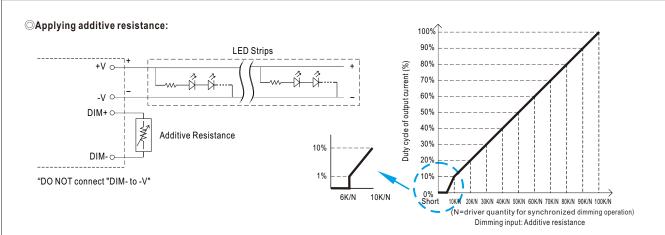
- · Apply one of the three methodologies between DIM+ and DIM-: 0 ~ 10VDC, or 10V PWM signal or resistance.
- Dimming source current from power supply: $100\mu A$ (typ.)





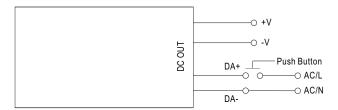






Note: 1. Min. duty cycle of output current is about 1%, and the dimming input is about $6K\Omega$ or 0.6VDC, or 10V PWM signal with 6% duty cycle. 2. The duty cycle of output current could drop down to 0% when dimming input is less than $6K\Omega$ or less than 0.6VDC, or 10V PWM signal with duty cycle less than 6%.

※DALI interface



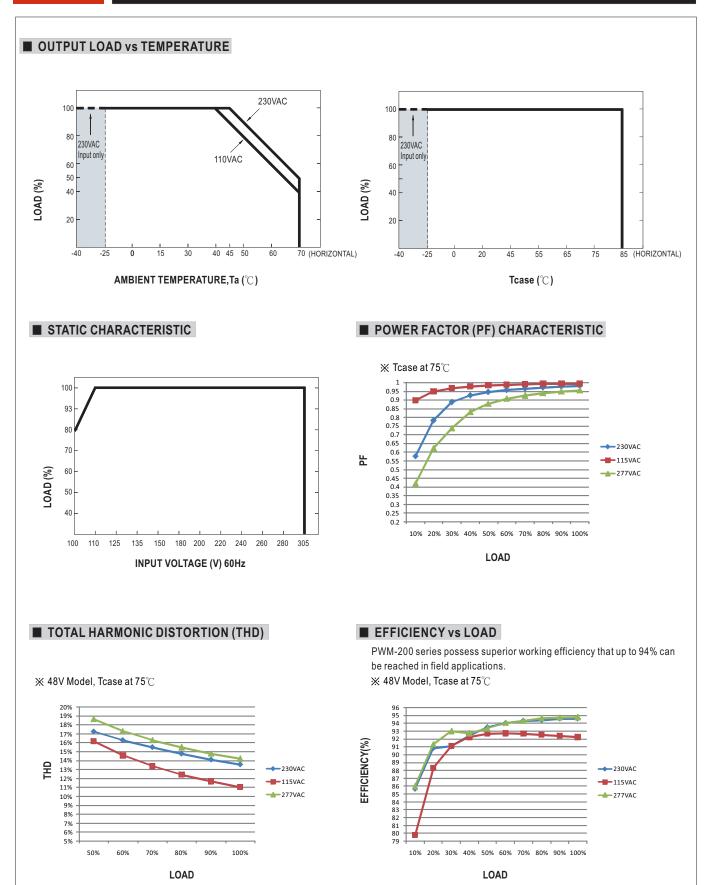
O PUSH dimming(primary side)

Action	Action duration	Function
Short push	0.1~1 sec.	Turn ON-OFF the driver
Long push	1.5~10 sec.	Every Long Push changes the dimming direction, dimming up or down
Reset	>11 sec.	Set up the dimming level to 100%

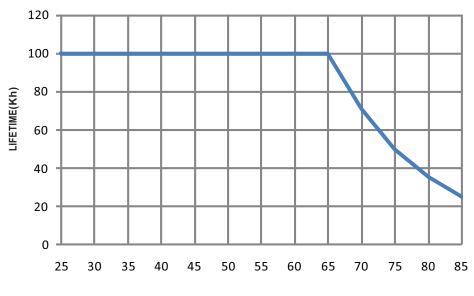
- The factory default dimming level is at 100%.
- If the push action lasts less than 0.05 sec., it will not lead to a change for the status of the driver.
- Up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.
- The maximum length of the cable from the push button to the last driver is 20 meters.
- The additive push button can be connected only between the DA+ terminal, as displayed in the diagram, and AC/L (in brown or black); it will lead to short circuit if it is connected to AC/N.

O DALI Interface (for DA2-Type)

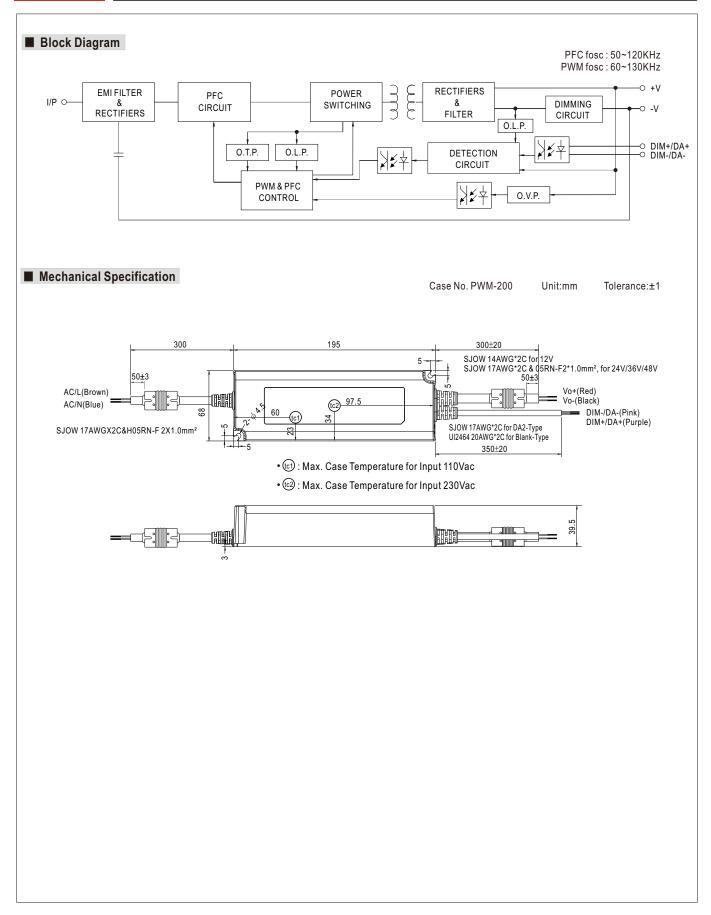
- · Apply DALI signal between DA+ and DA-.
- · DALI protocol comprises 16 groups and 64 addresses.
- Min.duty cycle of output current is about 0.2%



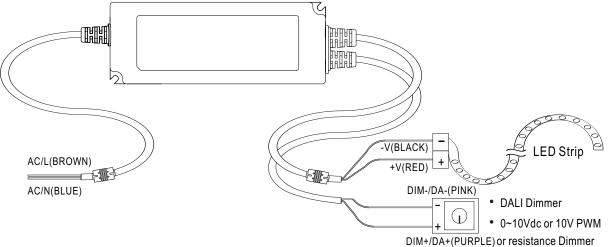
■ LIFE TIME



Tcase (°C)



■ Recommend Mounting Direction ■ Installation Manual © Connection for Blank-type and DA2-type



○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.
- For dimmable LED drivers, make sure that your dimming controller is capable of driving these units.PWM series require 0.15mA each unit.
- 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.