



(for DA2-Type only) (for DA Type only)



IS 15885(Part 2/Sec13)

R-41027766 (for 12,24,48,Blank Type only)



- Constant Voltage PWM style output
- Emergency lighting application is available according to IEC61347-2-13
- · Built-in active PFC function and class II design

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- Class 2 power unit(except PWM-90-12)
- No load power consumption <0.5W
- Fully encapsulated with IP67 level
- Function: 3 in 1 dimming (dim-to-off); DALI/DALI-2
- Minimum dimming level 0.2% for DALI type
- Typical lifetime>50000 hours and 5 years warranty

Applications

- LED strip lighting
- Indoor LED lighting
- LED decorative lighting
- · LED architecture lighting
- Industrial lighting

GTIN CODE

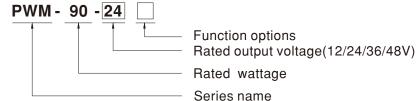
MW Search: https://www.meanwell.com/serviceGTIN.aspx

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Description

PWM-90 series is a 90W LED AC/DC LED driver featuring the constant voltage mode with PWM style output, which is able to maintain the brightness homogeneity when driving all kinds of LED strips.PWM-90 operates from $90 \sim 305$ VAC and offers models with different rated voltage ranging between 12V and 48V. Thanks to the high efficiency up to 90.5%, with the fanless design, the entire series is able to operate for -40° 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-90 is equipped with dimming function that varies the duty cycle of the output, providing great flexibility for LED strips applications.

Model Encoding



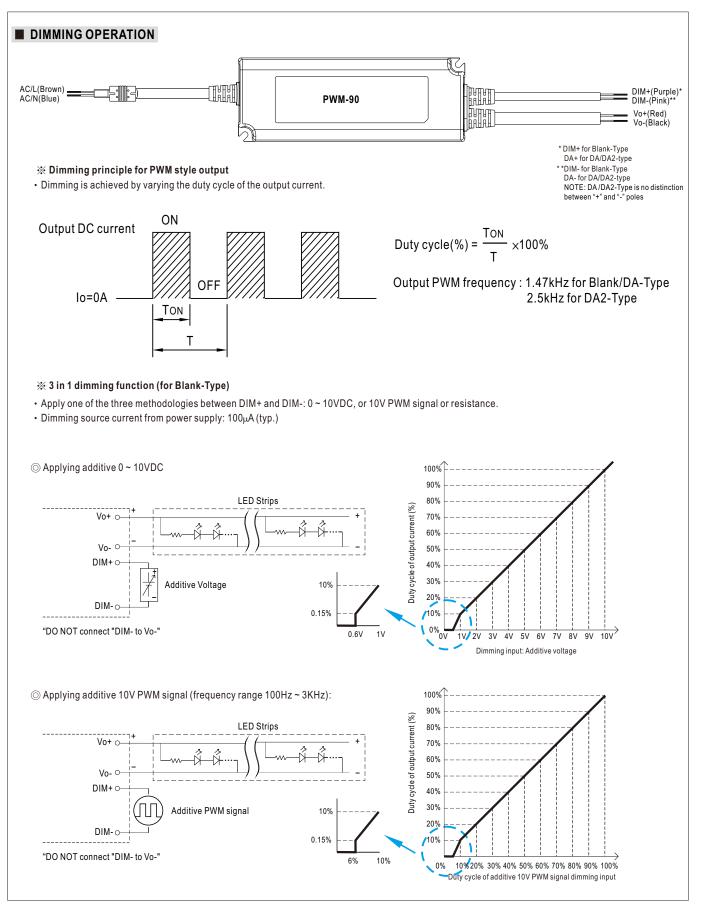
Туре	IP Level	Function	Note
Blank	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
DA	IP67	DALI control technology(for 12V/24V with DA type only)	In Stock
DA2	IP67	DALI-2 control technology(for 12V/24V/48V with DA2 type only)	In Stock



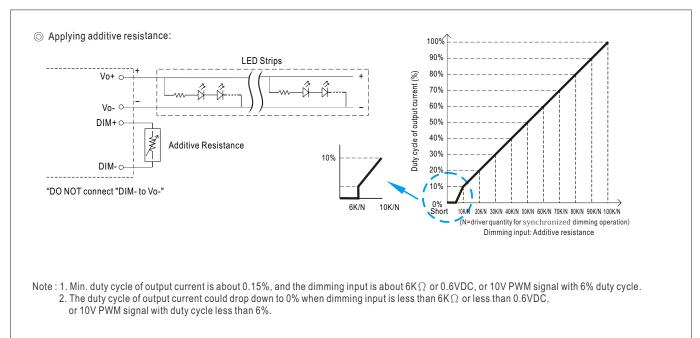
SPECIFICATION

		PWM-90-12	PWM-90-24	PWM-90-36	PWM-90-48			
MODEL	DC VOLTAGE		24V	36V	48V			
OUTPUT		12V						
	RATED CURRENT	7.5A	3.75A	2.5A	1.88A			
	RATED POWER	90W	90W	90W	90.24W			
		0~100%						
	PWM FREQUENCY (Typ.)							
	SETUP, RISE TIME Note.2 Note.9							
	HOLD UP TIME (Typ.)	16ms/115VAC or 230VAC						
-	VOLTAGE RANGE Note.3	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)						
	FREQUENCY RANGE	47 ~ 63Hz						
		47 ~ 05RZ PF>0.98/115VAC, PF>0.96/230VAC, PF>0.92/277VAC @ full load						
	POWER 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)						
				,	00.5%			
INPUI	EFFICIENCY (Typ.)	88%	90.5%	90.5%	90.5%			
	AC CURRENT (Typ.) INRUSH CURRENT (Typ.)	0.95A / 115VAC 0.5A / 230VAC 0.4A / 277VAC						
	MAX. NO. of PSUs on 16A							
	CIRCUIT BREAKER	3 units (circuit breaker of type E	3) / 6 units (circuit breaker	of type C) at 230VAC				
	LEAKAGE CURRENT	<0.25mA/277VAC						
	NO LOAD POWER CONSUMPTION	<0.5W						
		108 ~ 130% rated output powe	ər					
	OVERLOAD	Hiccup mode, recovers automatically after fault condition 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)						
PROTECTION	SHORT CIRCOTT	Hiccup mode, recovers auton 15 ~ 17V	natically after fault condi 28 ~ 34V	41 ~ 46V	DA2-type) 54 ~ 60V			
	OVER VOLTAGE			41 2 400	34 . 00 V			
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover Shut down o/p voltage, re-power on to recover						
	WORKING TEMP.	1 0 1		s TEMPERATURE" section	2)			
ENVIRONMENT	MAX. CASE TEMP.	Tcase=-40 ~ +85°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section) Tcase=+85°C						
	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
	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						
SAFETY & EMC	SAFETY STANDARDS Note.5	UL8750(except for DA-Type), CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent,						
	DALI STANDARDS	IEC62386-101, 102, 207,251 for DA/DA2-Type only,Device type 6(DT6)						
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC; I/P-DA:1.5KVAC; O/P-DA:1.5KVAC						
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH						
	EMC EMISSION Note.6	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@load \geq 60%) ; BS EN/EN61000-3-3,GB17743 and GB17625.1,EAC TP TC 020						
	EMC IMMUNITY	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	2394.5K hrs min. Telcordia	SR-332 (Bellcore) ;	224.2K hrs min. MIL-H	DBK-217F (25℃)			
OTHERS	DIMENSION	171*63*37.5mm (L*W*H)						
-	PACKING	0.77Kg; 18pcs/14.9Kg/0.97Cl	UFT					
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 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. 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 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 DA type. Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 							



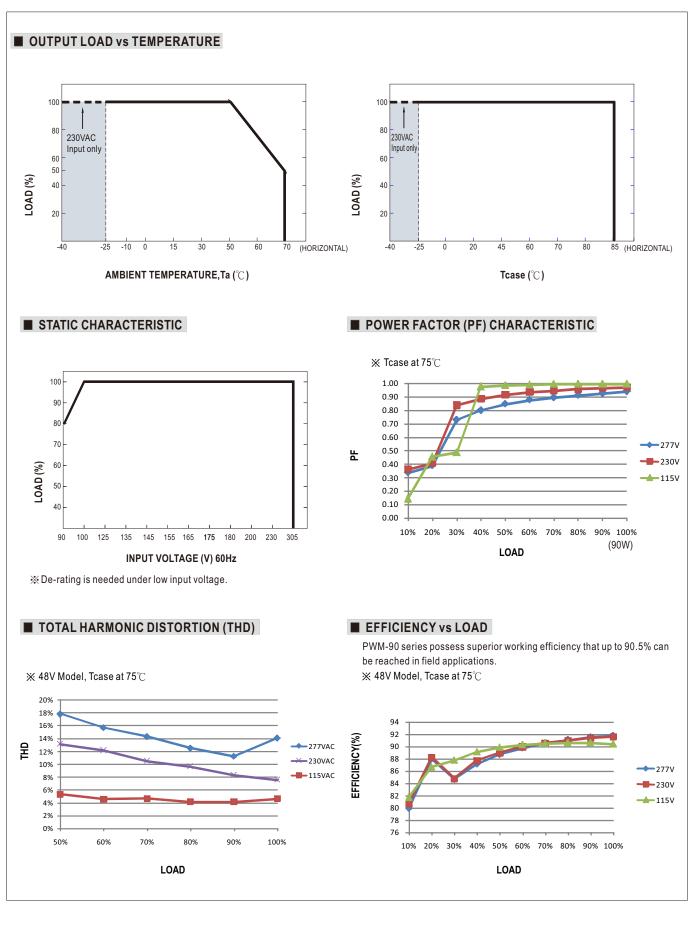






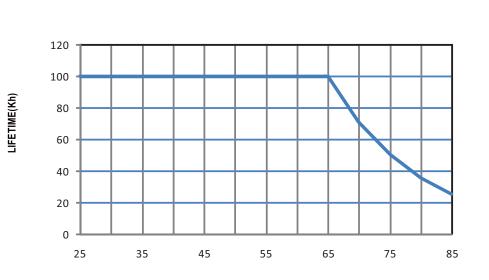
- ※ DALI Interface (primary side; for DA/DA2-Type)
- Apply DALI signal between DA+ and DA-.
- DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 0.2% of output





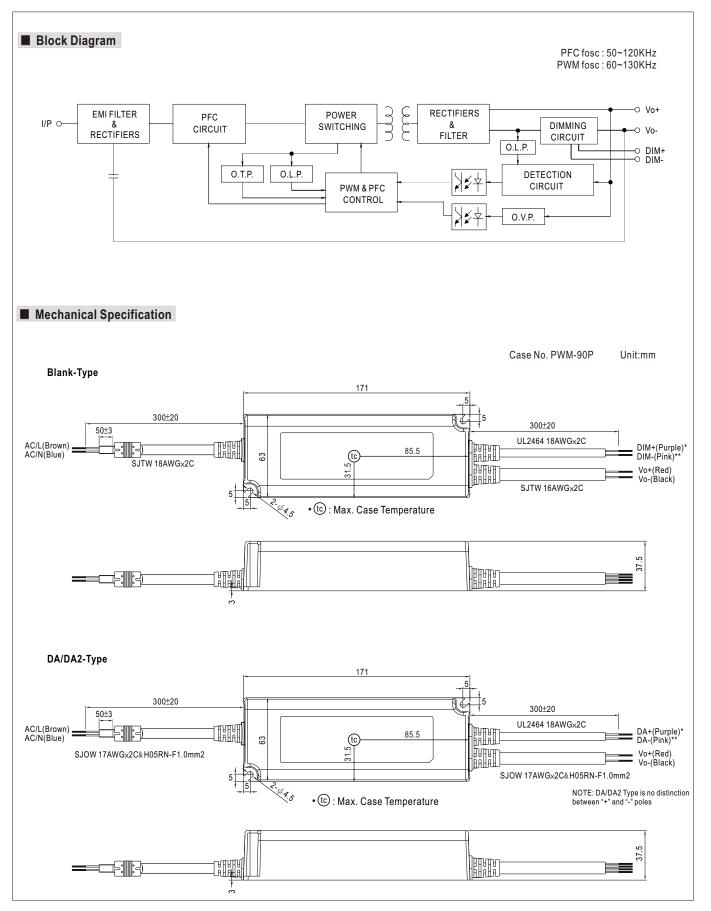


LIFE TIME

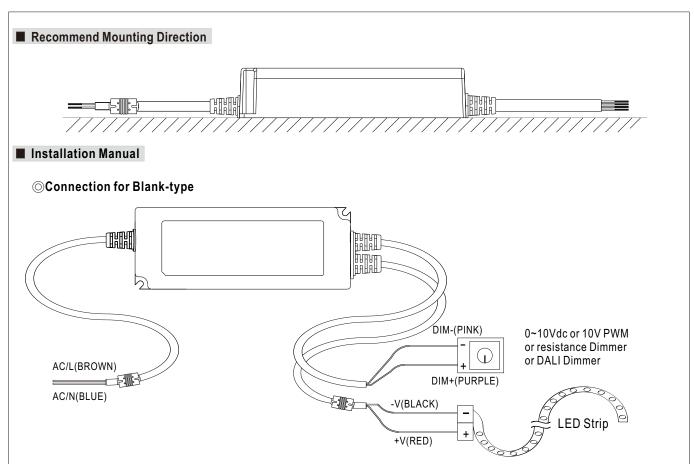


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Cautions

- 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.
- 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.
- DO NOT connect "DIM- to Vo-".
- 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.