





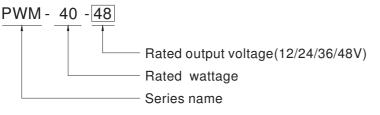
Features

 Constant Voltage PWM style output with frequency 1.47kHz
 Plastic housing with class II design
 Built-in active PFC function
 Class 2 power unit
 No load power consumption <0.5W
 Fully encapsulated with IP67 level
 Function: 3 in 1 dimming (dim-to-off)
 Typical lifetime>50000 hours
 5 years warranty Applications
 ED strip lighting
 ndoor LED lighting
 ED decorative lighting
 ED architecture lighting
 Type HL For use in Class I, Division 2 hazardous (Classified) location.

Description

PWM-40 series is a 40W LED 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-40 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%, with the fanless design, the entire series is able to operate for -40°C ~ +85°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-40 is equipped with dimming function that varies the duty cycle of the output, providing great flexibility for LED strips applications.

Model Encoding

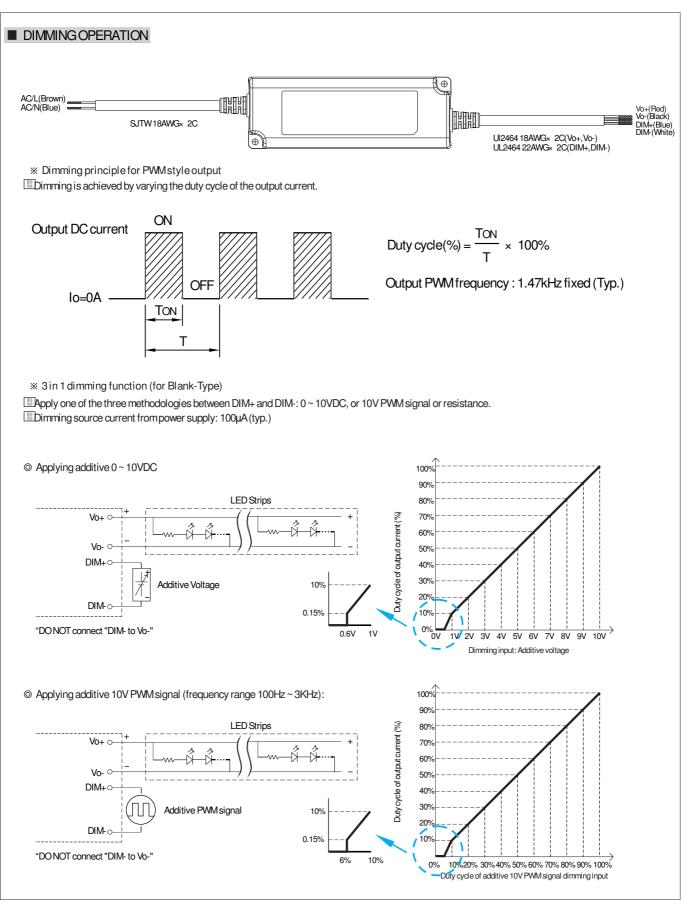




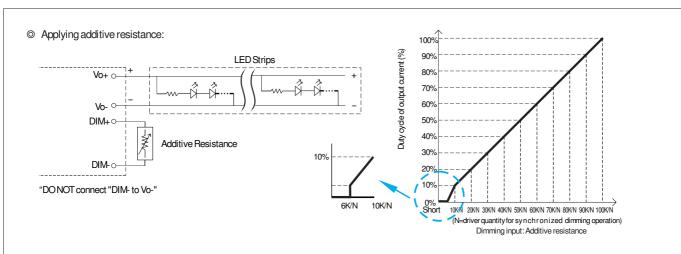
SPECIFICATION

	ATION	DWW 40 40	DVAA 40.04	DVAN 4 40 00	DIAM 4 40 40
MODEL		PWM-40-12	PWM-40-24	PWM-40-36	PWM-40-48
OUTPUT	DC VOLTAGE	12V	24V	36V	48V
	RATED CURRENT	3.34A	1.67A	1.12A	0.84A
	RATED POWER	40.08W	40.08W	40.32W	40.32W
	DIMMING RANGE	0~100%			
	PWM FREQUENCY (Typ.)	1.47kHz			
	SETUP, RISE TIME Note.2	500ms, 80ms 115VAC / 230VAC			
	HOLD UP TIME (Typ.)	16ms/115VAC or 230VAC			
INPUT	VOLTAGE RANGE Note.3	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)			
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR (Typ.)	PF>0.97/115VAC, PF>0.95/230VAC, PF>0.92/277VAC @full load (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 (Typ.)	86%	89%	90%	90%
	AC CURRENT (Typ.)	0.6A/115VAC 0.3A/2	230VAC 0.25A/277VAC)	
	INRUSH CURRENT (Typ.)	COLD START 50A(twidth=27@ s measured at 50% lpeak) at 230VAC; Per NEMA 410			
	MAX. NO. of PSUs on 16A CIRCUIT BREAKER	9 units (circuit breaker of type B) / 16 units (circuit breaker of type C) at 230VAC			
	LEAKAGE CURRENT	<0.25mA/ 277VAC			
	NO LOAD POWER CONSUMPTION	<0.5W			
PROTECTION	OVERLOAD	108 ~ 120% rated output power Hiccup mode, recovers automatically after fault condition is removed			
	SHORT CIRCUIT	Shut down o/p voltage, re-power on to recover			
		15~17V	28~34V	41~46V	54~60V
	OVER VOLTAGE	-			01 001
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover Shut down o/p voltage, re-power on to recover			
	WORKING TEMP.	Tcase=-40 ~ +85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)			
ENVIRONMENT	MAX. CASE TEMP.	Tcase=+85°C			
	WORKING HUMIDITY	20 ~ 95% RH non-condensing			
	STORAGE TEMP., HUMIDITY				
	TEMP. COEFFICIENT				
	VIBRATION	± 0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes			
SAFETY& EMC	SAFETY STANDARDS Note.5	UL8750(type "HL"), UL879(for 12V,24V only), CSA C22.2 No. 250.13-12; ENEC EN61347-1, EN61347-2-13 independent, EN62384, IP67,BIS IS15885(for 12V,24V only), EAC TP TC 004 approved; Design refer to EN60335-1			
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC			
	ISOLATION RESISTANCE				
	EMC EMISSION Note.6	Compliance to EN55015, EN61000-3-2 Class C (@load≥ 60%) ; EN61000-3-3, EAC TP TC 020			
	EMC IMMUNITY			ndustry level (surge immunity L	
OTHERS	MTBF		-		217F (25°C)
	DIMENSION	150*53*35mm (L*W*H)	$a \operatorname{OI} \operatorname{FOOZ} (\operatorname{Delloute}), 21$		2171 (25 C)
	PACKING	0.49Kg;30pcs/15.7Kg/1.0Cl	IFT		
NOTE	 All parameters NOT speci. De-rating may be needed Length of set up time is m The driver is considered a by the complete installation The model certified for CC This series meets the typic or less. 	cially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. a under low input voltages. Please refer to STATIC CHARACTERISTIC Sections for details. neasured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. as a component that will be operated in combination with final equipment. Since EMC performance will be affected ion, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. CC(GB19510.14, GB19510.1, GB17743 and GB17625.1) is an optional model . Please contact MEAN WELL for details. ical life expectancy of >50,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 75°C mty statement on MEAN WELL's website at http://www.meanwell.com			



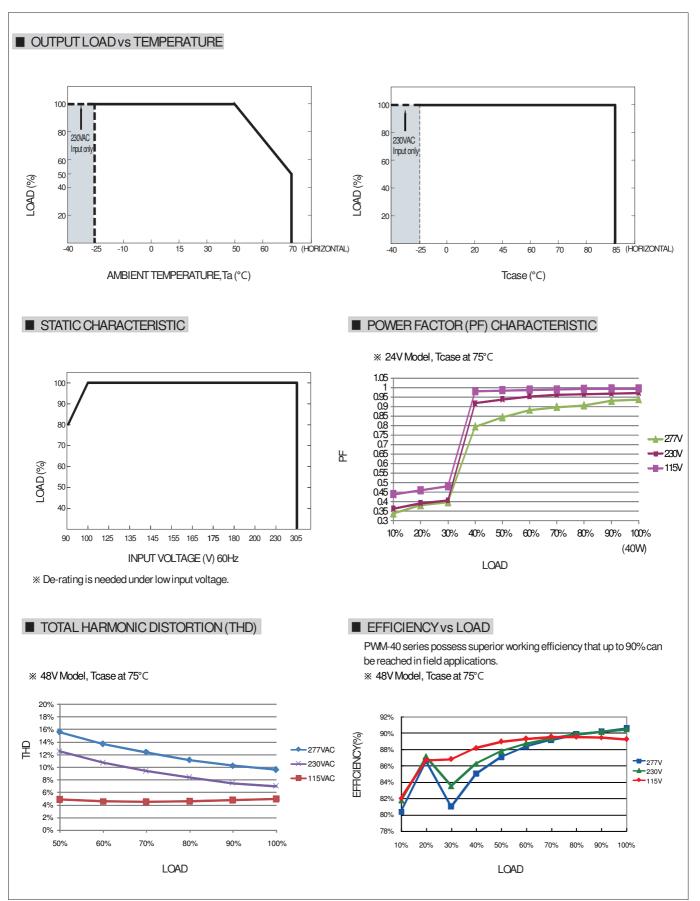




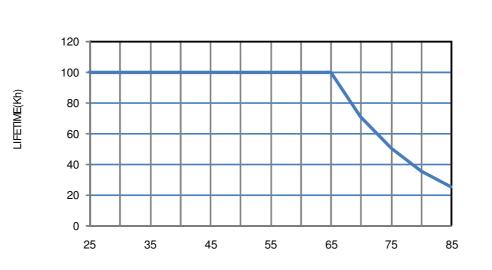


Note : 1. Min. duty cycle of output current is about 6% and the output current is not defined when 0% Iout<6%. 2. The duty cycle of output current could drop down to 0% when dimming input is about $0k\Omega$ or 0Vdc, or 10V PWM signal with 0% duty cycle.



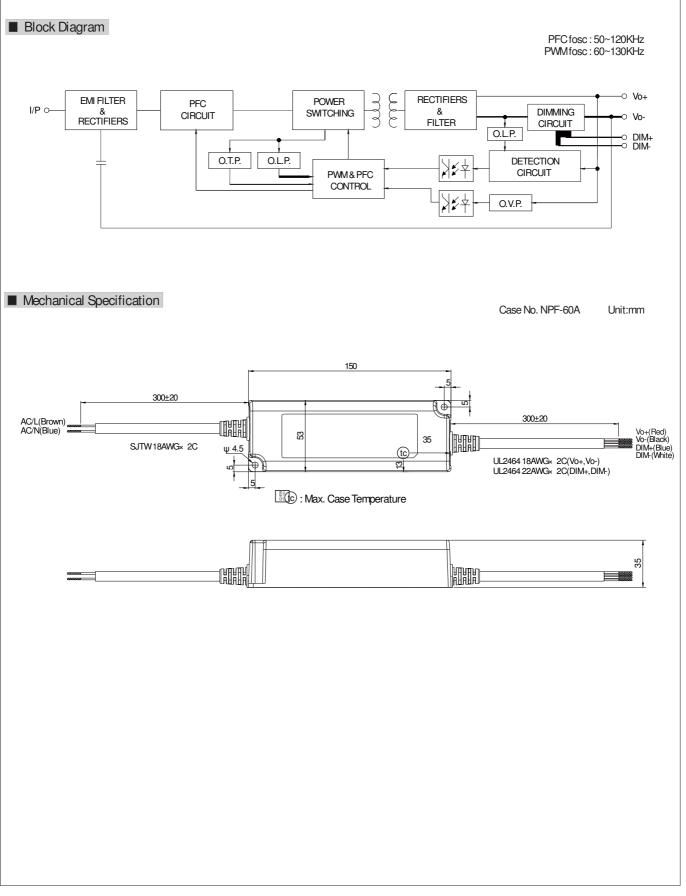






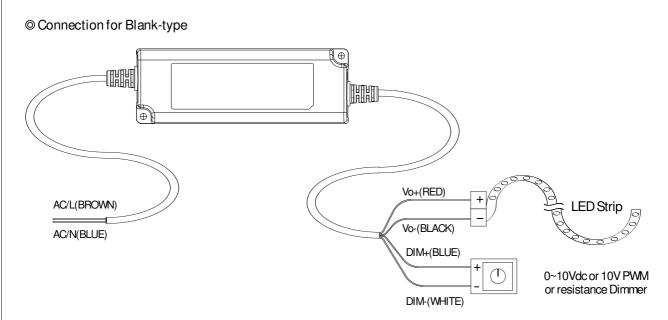
Tcase (°C)







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