

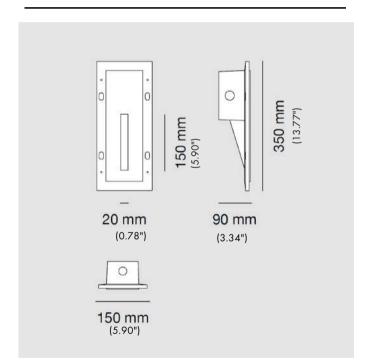








IP65



HINT SMALL

RECESSED Pathmarkers / BETALY Surface finish: BETALY

MODEL:

 Code
 1304A-392-30172

 Product family
 RECESSED LAMPS

 Type
 Pathmarkers

MATERIAL:

BETALY®

INSTALLATION:

 Isolation Class:
 II

 IP:
 IP65

 Installation:
 Recessed

 Weight:
 3 Kg

LIGHT SOURCE:

 Light source
 LED

 Power:
 4W

 Tension:
 24Vdc

 Lumen:
 400lm

 Color temperature:
 3000K

 CRI:
 80

Power supply: Remote Power Supply (see pages 2 to 7)

FINISH OPTIONS:



392

On request available in white dyeable color

ACCESORIES:

- 101. Non-dimmable
- 102. 0-10V dimmable
- 103. Triac dimmable
- 104. Other dimming types on request

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1-877-964-4646





DRIVER SPEC SHEET - 40W PWM Output LED Driver 026.303









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

Applications

- · LED strip lighting
- · Indoor LED lighting
- · LED decorative lighting
- · LED architecture lighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.





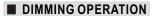


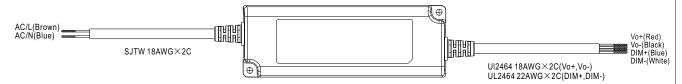
SPECIFICATION

SPECIFICATION		
MODEL		026.303
OUTPUT	DC VOLTAGE	24V
	RATED CURRENT	1.67A
	RATED POWER	40.08W
	DIMMING RANGE	0 ~ 100%
	PWM FREQUENCY (Typ.)	1.47kHz
	SETUP, RISE TIME Note.2	
	HOLD UP TIME (Typ.)	16ms/115VAC or 230VAC
	TIOLD OF TIME (Typ.)	90 ~ 305VAC 127 ~ 431VDC
INPUT	VOLTAGE RANGE Note.3	(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.)	89%
	AC CURRENT (Typ.)	0.6A / 115VAC
	INRUSH CURRENT (Typ.)	COLD START 50A(twidth=270یع 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 ~ 130% rated output power
		Hiccup mode, recovers automatically after fault condition is removed
	SHORT CIRCUIT	Shut down o/p voltage, re-power on to recover
	OVER VOLTAGE	28 ~ 34V
		Shut down o/p voltage, re-power on to recover
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover
ENVIRONMENT	WORKING TEMP.	Tcase=-40 ~ +85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)
	MAX. CASE TEMP.	Tcase=+85°C
	WORKING HUMIDITY	20 ~ 95% RH non-condensing
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH
	TEMP. COEFFICIENT	$\pm 0.03\%$ /°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"), 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,GB19510.1,GB19510.14 approved; Design refer to EN60335-1
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH
	EMC EMISSION Note.6	Compliance to EN55015, EN61000-3-2 Class C (@load≧60%) ; EN61000-3-3,GB17743 and GB17625.1, EAC TP TC 020
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Line 2KV),EAC TP TC 020
	MTBF	995.5K hrs min. Telcordia SR-332 (Bellcore); 270.02K hrs min. MIL-HDBK-217F (25°C)
	DIMENSION	150*53*35mm (L*W*H)
	PACKING	0.49Kg;30pcs/15.7Kg/1.0CUFT
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 3. 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. 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. 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°C or 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. fdp.NE_DEL/FDP/daolpU/moc.llewnaem.www//:sptth	

X Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

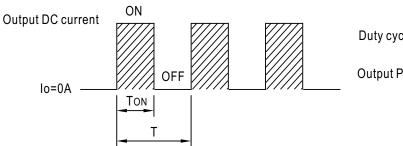






*** Dimming principle for PWM style output**

 $\boldsymbol{\cdot}$ Dimming is achieved by varying the duty cycle of the output current.

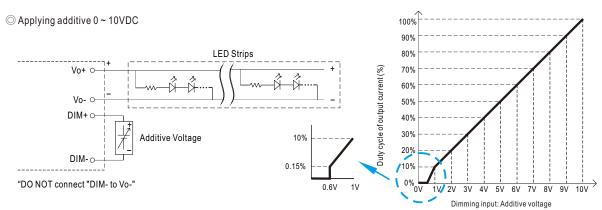


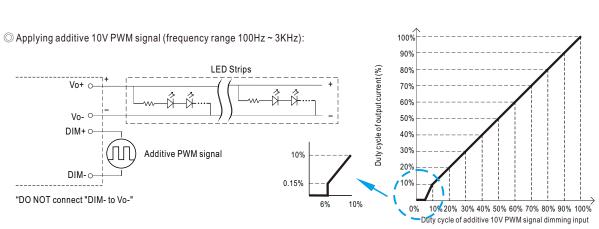
Duty cycle(%) =
$$\frac{\text{ToN}}{\text{T}} \times 100\%$$

Output PWM frequency: 1.47kHz fixed (Typ.)

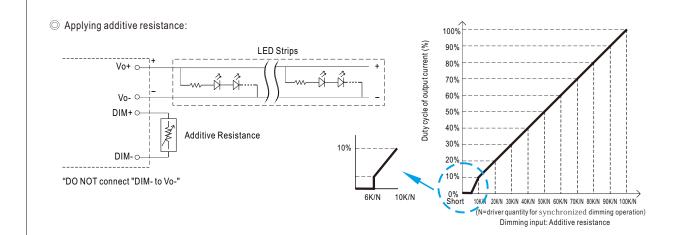
% 3 in 1 dimming function (for Blank-Type)

- · 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.)





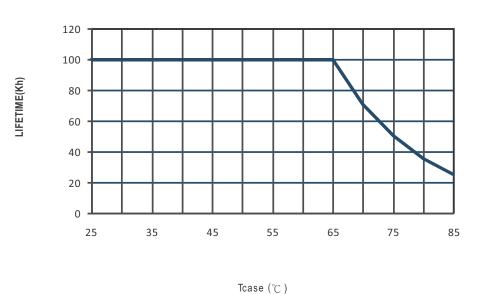




Note: 1. Min. duty cycle of output current is about 6% and the output current is not defined when 0% < Iout < 6%.

2. The duty cycle of output current could drop down to 0% when dimming input is about 0k Ω or 0Vdc, or 10V PWM signal with 0% duty cycle.

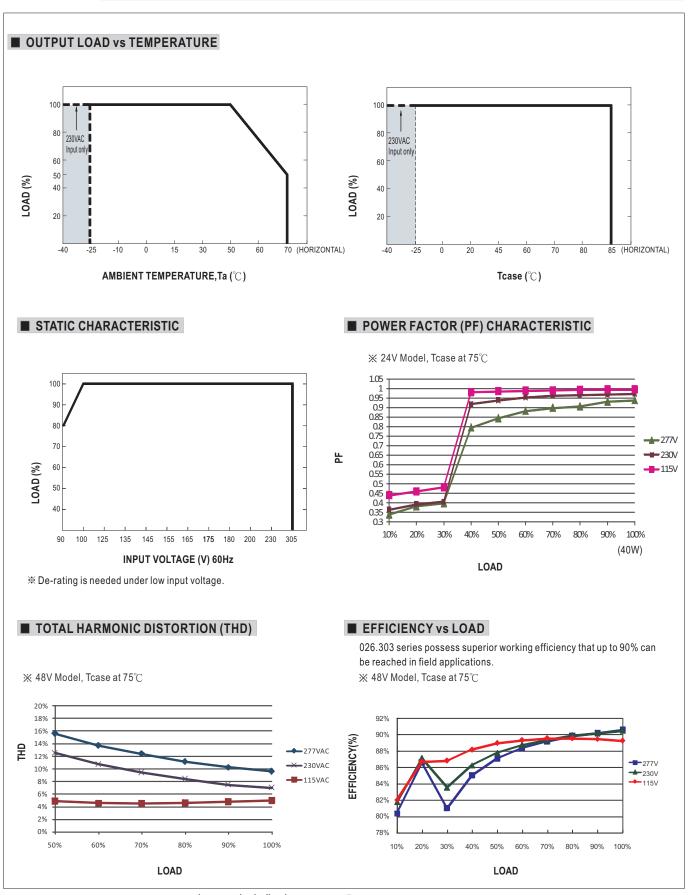
■ LIFE TIME



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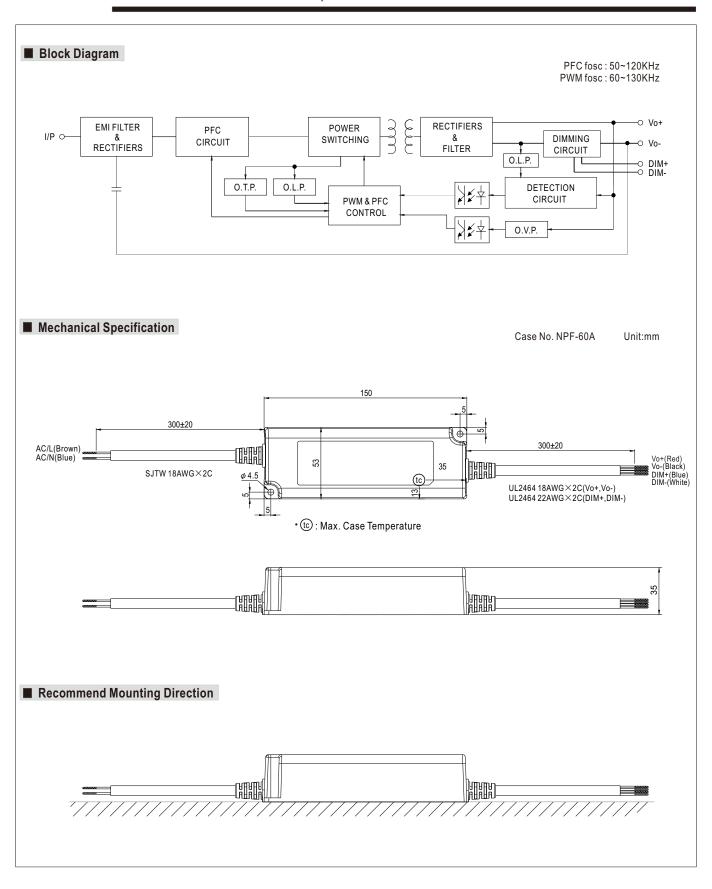




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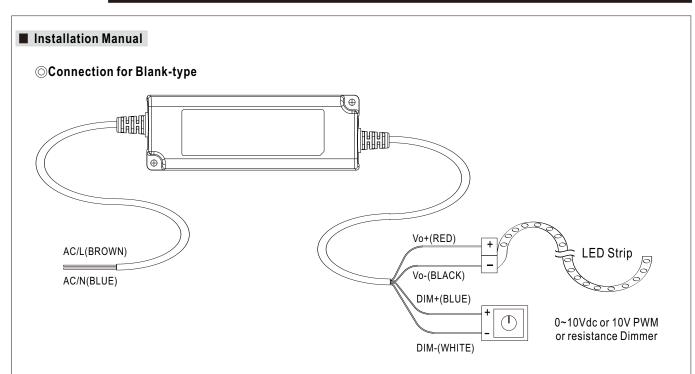




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○Cautions

- 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.

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