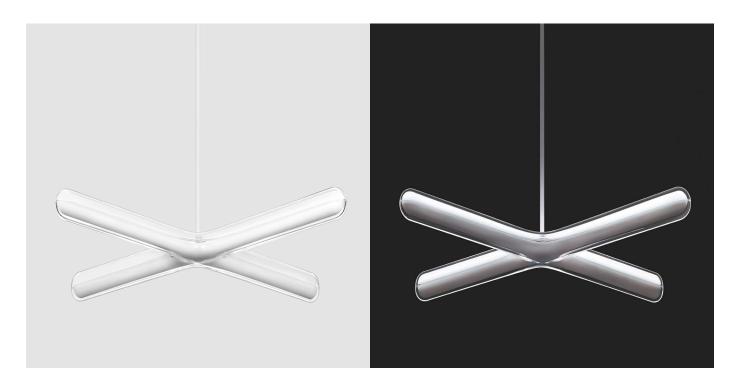
TWO PARTS



Calcium

By Christo Logan

Description

Indoor Pendant Fixture - Uplight

Fixture

Material: Acrylic + Polycarbonate Color: Clear + White Dims: 14.6² x 1.7 in / Span: 20.4 in Dims: 372² x 43 mm / Span: 518 mm

Cord

Color: White Length: 20 ft / 6 m

Driver

Fits in most Junction Boxes Dimming: Triac, ELV, 0-10V Input Voltage: 100-305V AC

LED

Input: 13W Output: 800 lm User replaceable: No Life Expectancy: 50,000 hours Color Accuracy: CRI 95+, R9 90+ Input: 12V Constant Voltage

Warranty

Fixture: 5 years Driver: 3 years

Certification

ETL Listed (UL + CSA Standards) Damp Location CE, RoHS

Download CAD, Revit, IES

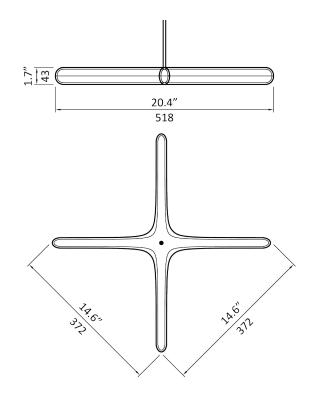
http://two.parts/calcium

Light Temp

□ CAL-CW-27 : 2700K □ CAL-CW-30 : 3000K □ CAL-CW-35 : 3500K

Cluster Size : Driver

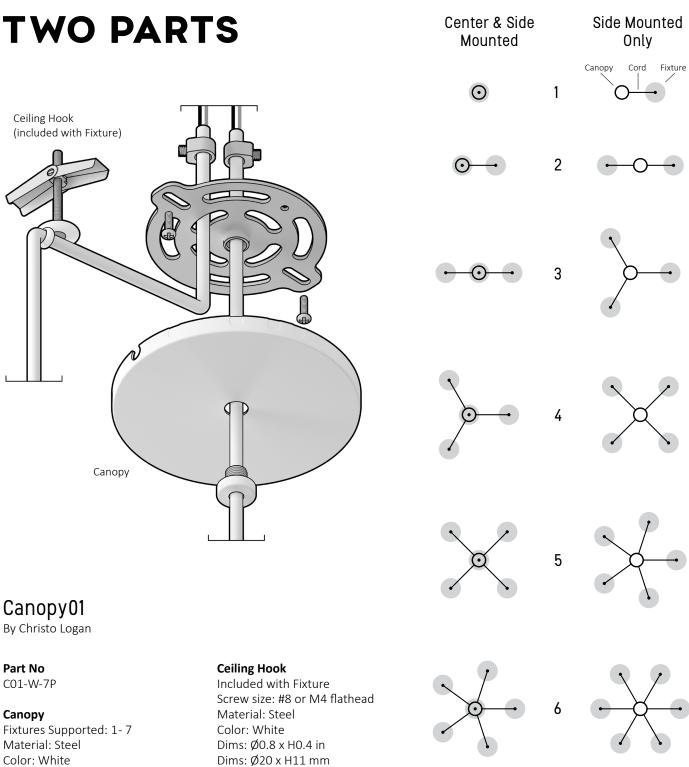
□ 1 : Two Parts 25W Driver
□ 2 : Two Parts 40W Driver
□ 3 : Two Parts 40W Driver
□ 4 : PWM-90-12 Driver
□ 5 : PWM-90-12 Driver
□ 6 : PWM-90-12 Driver
□ 7 : Any 95W+ 12V CV Driver



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Material: Steel Color: White Dims: Ø4 1/2 x H3/8 in Dims: Ø115 x H9 mm

Features

Low Profile No exposed screws Side port knockouts Center port cap

Certification

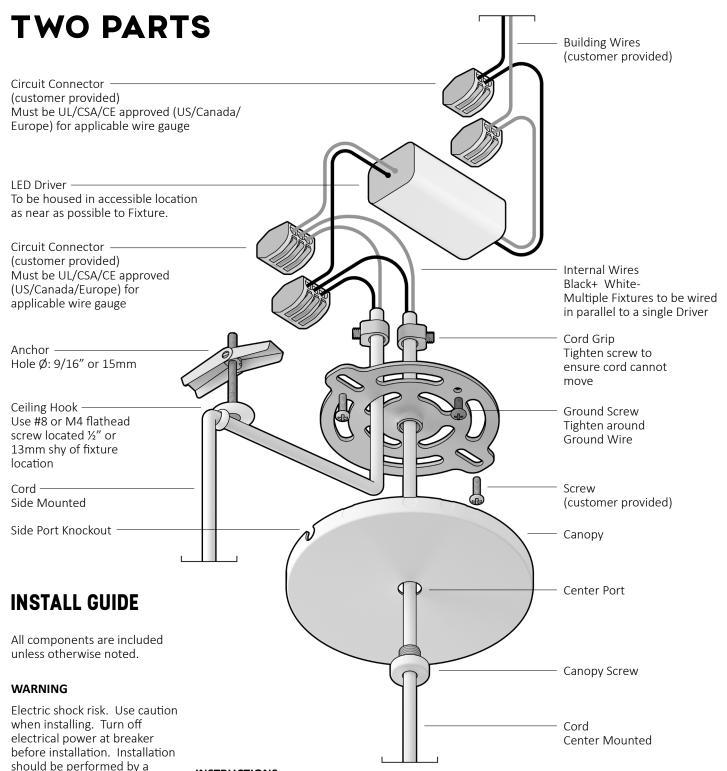
ETL Listed (UL & CSA Standards) Damp Location CE, RoHS

Download CAD, Revit, IES http://two.parts/canopy01



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INSTRUCTIONS

1A Center Mount Remove cap from Canopy Screw.

1B Side Mount Install Ceiling Hook(s) with loop facing away from canopy. Knock out side port(s) according to cluster configuration.

2 Cut each Cord to desired length, leaving 3" (70mm) of exposed Internal Wires.

3A Center Mount Thread Cord through Canopy Screw, Canopy, Crossbar and Cord Grip.

3B Side Mount Thread Cord through Ceiling Hook, Crossbar and Cord Grip.

4 Secure Cord Grip onto each Cord with 1/2" (10mm) of Cord left above. **5** Using Circuit Connectors appropriate to local building code, connect Internal Wires to Driver and connect Driver to Building Wires.

6 Screw Crossbar to ceiling or outlet box.

7 Affix Canopy Screw to Crossbar with Canopy in between.

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dry cloth as needed.

qualified electrician only.

The installer must ensure that

weight and reinforce ceiling

Wipe exposed surfaces with

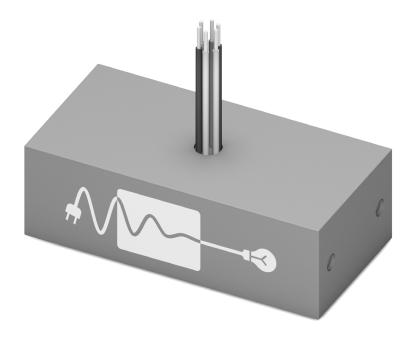
necessary.

MAINTENANCE

the ceiling can support fixture's

structure by adequate means if

TWO PARTS



Driver 25W

By LTF LLC

Part No D25W12V-UI-UD

Description Dimmable Low Voltage LED Driver

Manufacturer Part LTF DS25W12VBF1UD

Features

Fits in most Junction Boxes Auto-reset, Short Circuit, Overload and Thermal Protection

Warranty 3 year limited warranty

Input Voltage: 100-305V AC Frequency: 50/60Hz

Output

Type: Constant Voltage Power: 25W Voltage: 12V DC Current: 2083mA

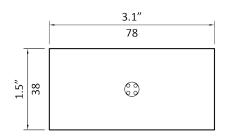
Specs

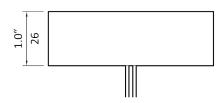
Dimming: Triac, ELV, 0-10V Class: Class 2 Power Supply IP Rating: IP67 Humidity: 95% RH Max

Certification

UL8750, UL1310 CE, RoHS FCC Part 15 Class B Compliant

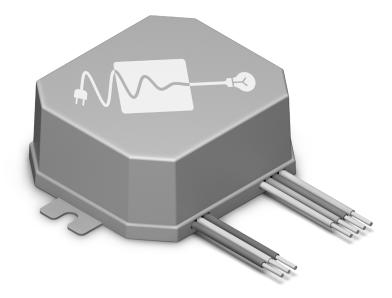
Dimensions 3.1 x 1.5 x 1.0 in 78 x 38 x 26 mm





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TWO PARTS



Driver 40W

By LTF LLC

Part No D40W12V-UI-UD

Description Dimmable Low Voltage LED Driver

Manufacturer Part LTF DS40W12VOCUD

Features

Fits in most Junction Boxes Auto-reset, Short Circuit, Overload and Thermal Protection

Warranty 3 year limited warranty

Input Voltage: 100-305V AC Frequency: 50/60Hz

Output

Type: Constant Voltage Power: 40W Voltage: 12V DC Current: 3333mA

Specs

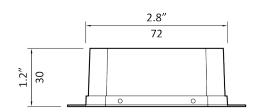
Dimming: Triac, ELV, 0-10V Class: Class 2 Power Supply IP Rating: IP67 Humidity: 95% RH Max

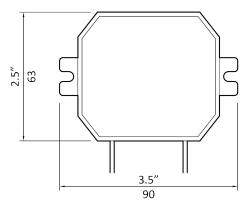
Certification

UL8750, UL1310 CE, RoHS FCC Part 15 Class B Compliant

Dimensions 3.5 x 2.5 x 1.2 in

3.5 x 2.5 x 1.2 in 90 x 63 x 30 mm





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	LTF Drivers Dimmer Compatibility List				
	Dimmer brand: Lutron, Crestron, Leviton				
1	Lutron DIVA CL	DVCL-153P-WH			
2	Lutron DIVA ELV	DVELV-303P			
3	Lutron Home Works	HQRD-6A			
4	Lutron Home Works	HQRD-6NA			
5	Leviton	Model 6615			
6	Leviton	Model 6672			
7	Leviton	Model 6674/IPL06			
8	Leviton	Model IPE04			
9	Leviton Model IPI06				
10	Leviton	Model VP106			
11	Leviton	Model VPE04			
12	Leviton	VPM06			
13	Leviton	VRE04			
14	Leviton	Model VRM10			
15	Lutron MAESTRO	MRF2-6ELV-120-WH			
16	Lutron NOVA T NTELV-600-WH				
17	Lutron NOVA NVELV-600-WH				
18	Lutron SKYLARK	SELV-600-WH			
19	Lutron	MRF2-6ELV-120-WH			
20	Lutron Vierti	VTELV-600-XXX			
21	Lutron NOVA T	NTELV-300			
22	Lutron MAESTRO	MAELV-600			
23	Lutron MAESTRO MSCELV-600M				
24	Lutron MAESTRO IR	MIRELV-600			
25	Lutron MAESTRO WIRELESS	MRF2-6ELV-120			



POWERED BY LTF

26	Lutron CASETA WIRELESS	PD-6WCL		
27	Lutron MAESTRO RF	RRA-6D		
28	Lutron MAESTRO RF	RRA-6NA		
29	Lutron MAESTRO RF	RRA-6ND		
30	Skylark Contour	CTELV-303P		
31	CRESTON	SELV-300P		
32	CRESTON	CLS-C6		
33	CRESTON	CLS-C6M		
34	CRESTON	CLS-C6EX		
35	CRESTON	CLS-C6MEX		
36	CRESTON	CLS-C6MRF		
37	CRESTON	CLS-C6RF		
38	CRESTON	CLS-EXP-DIM		
39	CRESTON	CLS-EXP-DIMU		
40	CRESTON	CLX-1DIM4		
41	CRESTON	CLX-1DIM8		
42	CRESTON	CLX-2DIM2		
43	CRESTON	CLX-2DIM8		
44	CRESTON	CLX-1DELV4		
45	CRESTON	DIN-1DIM4		
46	CRESTON	DIN-1DIMU4		
47	CRESTON	CLW-DIMEX-E		
48	CRESTON	CLW-DIMEX-P		
49	CRESTON	CLW-DIMSWEX-E		
50	CRESTON	CLW-DIMSWEX-P		





51	CRESTON	P-DIMEX		
52	CRESTON	GLX-DIM6		
53	CRESTON	GLXX-2DIM8		
54	CRESTON	CLW-DELVEX-E		
55	CRESTON	CLW-DELVEX-P		
56	Lutron Diva	0-10V DVSTV		
57	Lutron Diva	0-10V DVTV		
58	Leviton	IP710		
59	Leviton	DS710		
60	Leviton	DD710		
61	Crestron	CLX-2DIMFLV8		
62	Crestron	DIN-4DIMFLV4		
63	Crestron	CLS-EXP-DIMFLV		
64	Crestron	GLX-DIMFLV8		

* These are a few examples of dimmers tested for compatability.

There are many other dimmers that are compatable on the market.





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



Features

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

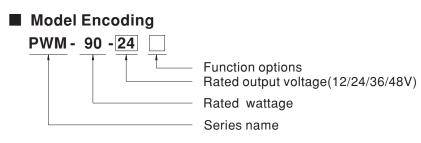


Applications

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

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 $\sim +85$ °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.



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

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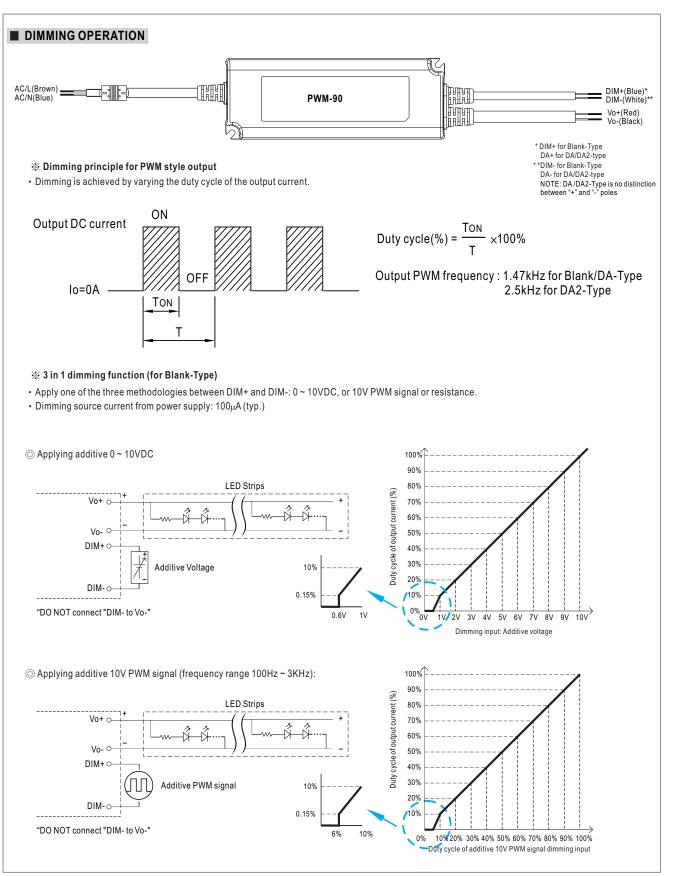
SPECIFICATION

MODEL		PWM-90-12	PWM-90-24	PWM-90-36	PWM-90-48	
	DC VOLTAGE	12V	24V	36V	48V	
	RATED CURRENT	7.5A	3.75A	2.5A	1.88A	
	RATED POWER	90W	90W	90W	90.24W	
ουτρυτ	DIMMING RANGE	0 ~ 100%				
OUIPUI	PWM FREQUENCY (Typ.)	1.47kHz for Blank/DA-Type, 2	2.5kHz for DA2-Type			
	SETUP, RISE TIME Note.2 Note.9	500ms, 80ms/ 115VAC or 230VAC				
	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				
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.96/230VAC, 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)				
INPUT	EFFICIENCY (Typ.)	88%	90.5%	90.5%	90.5%	
	AC CURRENT (Typ.)	0.95A / 115VAC 0.5A / 2	230VAC 0.4A / 277VA	2		
	INRUSH CURRENT (Typ.)	COLD START 60A(twidth=550) µs measured at 50% lpeak) at 230VAC; Per NEMA 410		
	MAX. NO. of PSUs on 16A CIRCUIT BREAKER	3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC				
	LEAKAGE CURRENT	<0.25mA / 277VAC				
	NO LOAD POWER CONSUMPTION	<0.5W				
	OVERLOAD	108 ~ 130% rated output pow	ver			
	OVERLOAD	Hiccup mode, recovers autor	matically after fault conditio	n is removed		
PROTECTION	SHORT CIRCUIT	Shut down o/p voltage, re-p Hiccup mode,recovers auto	ower on to recover(except	for DA2-type) ion is removed (only for DA	2-type)	
		15 ~ 17V	28 ~ 34V	41 ~ 46V	54 ~ 60V	
	OVER VOLTAGE	Shut down o/p voltage, re-p	ower on to recover			
	OVER TEMPERATURE	Shut down o/p voltage, re-p	ower on to recover			
	WORKING TEMP.	Tcase=-40 ~ +85°C (Please r	refer to " OUTPUT LOAD vs	TEMPERATURE" section)		
	MAX. CASE TEMP.	Tcase=+85℃				
	WORKING HUMIDITY	20 ~ 95% RH non-condensin	g			
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)				
	VIBRATION	10 ~ 500Hz, 5G 12min./1cyc	le, period for 72min. each a	along X, Y, Z axes		
	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, BS EN/EN62384, IP67,BIS IS15885(for 12,24,48 Blank Type only), EAC TP TC 004,GB19510.1, GB19510.14 approved; Design refer to BS EN/EN60335-1;According to BS EN/EN61347-2-13 appendix J suitable for emergency installations				
	DALI STANDARDS	IEC62386-101, 102, 207,251 for DA/DA2-Type only,Device type 6(DT6)				
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC; I/P-DA:	1.5KVAC; O/P-DA:1.5KVA	C		
EMC	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	902.4K hrs min. Telcordia	SR-332 (Bellcore) ; 22	24.2K hrs min. MIL-HDBK	-217F (25℃)	
OTHERS	DIMENSION	171*63*37.5mm (L*W*H)				
	PACKING	0.77Kg; 18pcs/14.9Kg/0.970	CUFT			
NOTE	 De-rating may be needed Length of set up time is m The driver is considered a by the complete installati This series meets the typ Please refer to the warran The ambient temperature For any application note a https://www.meanwell.cor Based on IEC 62386-101/can support for DALI power 	specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. aded under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. red as a component that will be operated in combination with final equipment. Since EMC performance will be affected allation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. e typical life expectancy of >50,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 75°C or less. arranty statement on MEAN WELL's website at http://www.meanwell.com ture derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). ote and IP water proof function installation caution, please refer our user manual before using. II.com/Upload/PDF/LED_EN.pdf 101/102 DALI power on timing and interruption regulations, the set up time needs to test with a DALI controller which power on function, otherwise the set up time will be higher than 0.5 second for DA type. elaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx				

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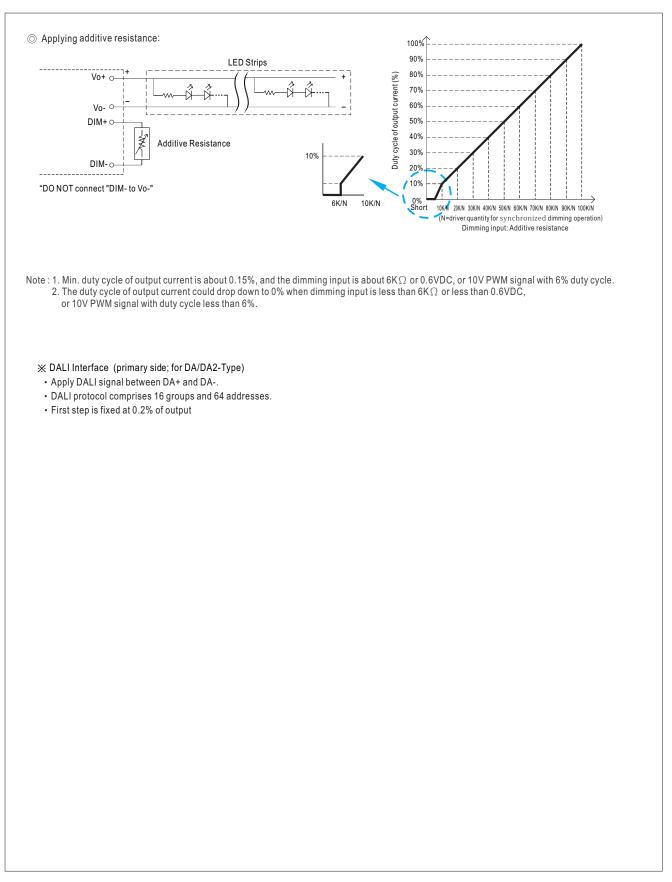


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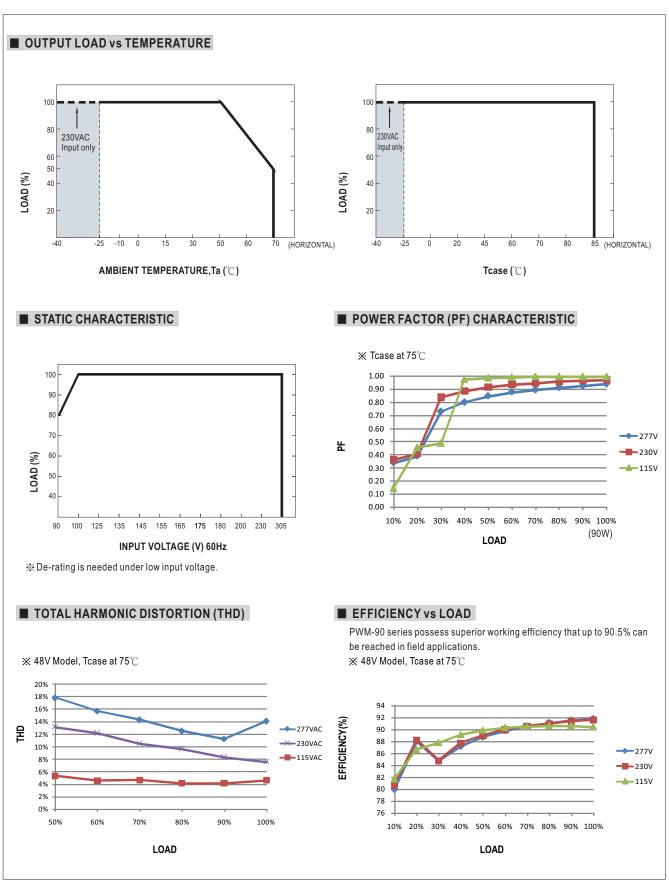


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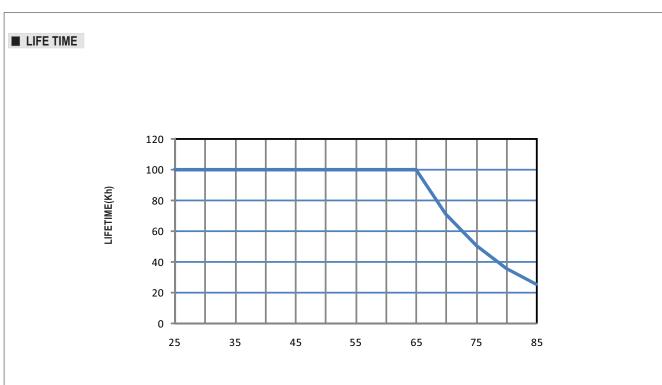




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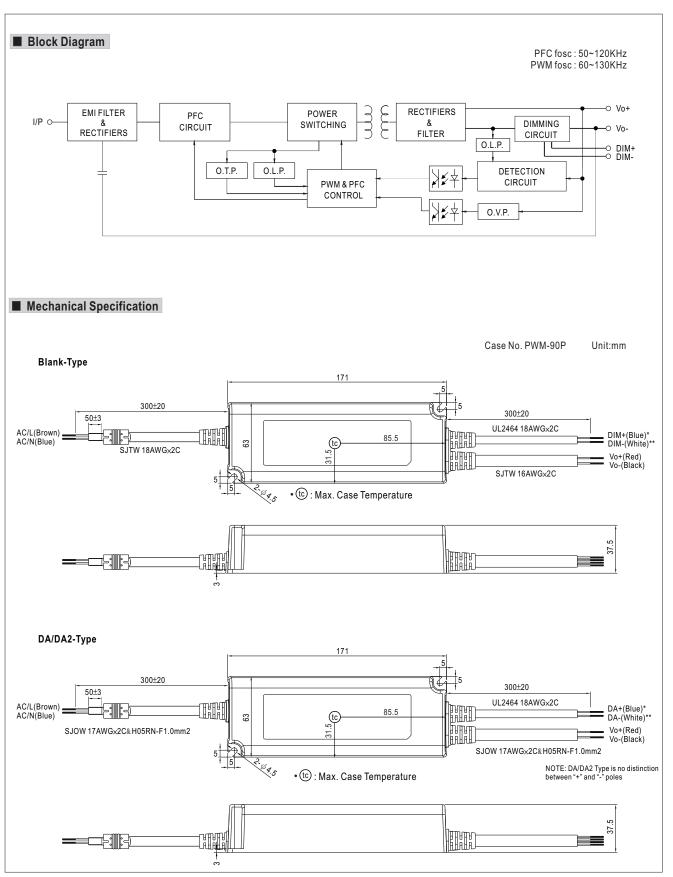
Tcase (°C)

File Name:PWM-90-SPEC 2021-08-02







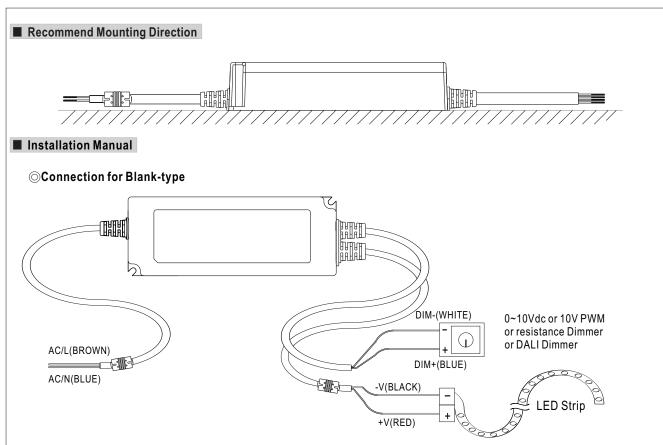


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Cautions

- 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.

File Name: PWM-90-SPEC 2021-08-02



