

EULP10AT-1WPC-WS-300

Summary

EULP10AT-1WPC-WS-300 is a constant current mode output LED driver. The driver supports leading edge (Triac) and trailing edge (ELV) dimmer, 0-10V to achieve a smooth dimming effect.

Product Feature

- Single channel output, output current can be selected by software
- Compatible with TRIAC (forward-phase or leading-edge), ELV (reverse-phase or trailing-edge) and 0-10 V dimmers
- TRIAC and ELV dimming at 120 Vac only
- Protections: Over load, Over Voltage and short-circuit
- Suitable for indoor LED lighting application

Application



Down Light

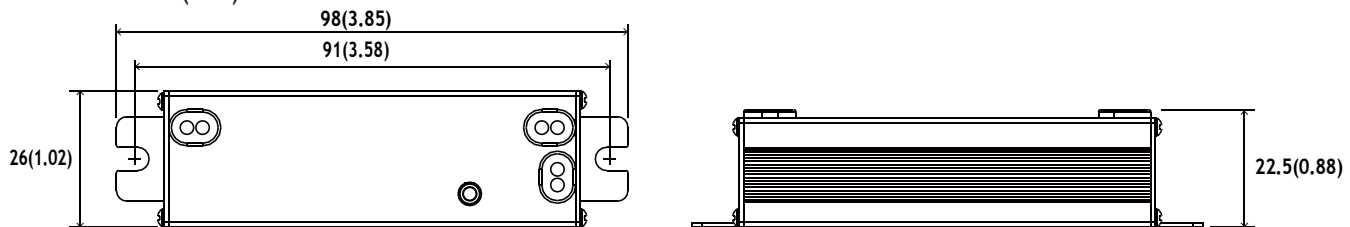


Technical Parameters

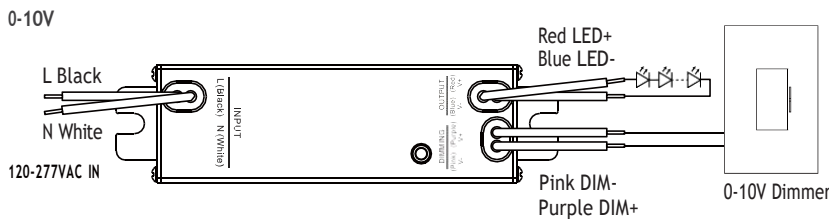
Model	EULP10AT-1WPC-WS-300	
Input	Efficiency	≥74%@120VAC, ≥71%@277VAC, full load
	Rated Voltage	120-277VAC
	Frequency Range(Hz)	50/60Hz
	Current	0.2A max@120VAC, 0.1A max@277VAC
	Power Factor	≥0.9@120VAC, ≥0.85@277VAC
	THD(full load)	≤20%@120VAC, ≤25%@277VAC
	Inrush Current(max)	Cold start, 2.5A@120VAC 50us, 5A@120VAC 25us
Output	Current Range	300-667mA (Factory Settings: 667mA)
	Voltage Range	3-15VDC
	Output Power	10W Max
	Current	1
	Current Tolerance	±5%
	Ripple current	±8%
	Standby power	<2W
	No load power	<2W
	No load output voltage	30VDC max
	Turn on delay Time	≤1s, @120Vac (When the light begins to shine)
Function	Dimming Type	0-10V Tirac/ELV
	Dimming Range	0-10V: 1%-100% Triac: 3%-100%
	Dimming curve	Linearity(0/1-10V); Logarithm(Triac/ELV)
	Flicker	Flicker free
Protection	Short-circuit	Short circuit without output, troubleshooting results in normal output
	Over load	Yes, Current drops, troubleshooting output is normal
	Over Voltage	Yes, Current drops, troubleshooting output is normal
Safety& EMC	Surge	L-N: 2.5kV (Ring wave)
	Withstand Voltage	I/P-O/P:2000Vac/1min/<5mA
	Safety Standards	UL1310
	EMI	FCC Part 15 Class B @120v FCC Part 15 Class A @277v

Others	Working Temp.	-20°C -50°C
	Storage Temp., Humidity	-40°C -80°C, 5%-90%RH
	tc	75°C
	Material	Metal
	IP Rating	IP20
	Lifetime	50,000h@tc:75°C
	Warranty Condition	5years
	Switch Cycle	>25,000 times
	Dimension	98*26*22.5mm (3.85*1.02*22.5 Inch) (L*W*H)
	Packing(weight)	Net weight: 95g(0.2 lb)±5%/PCS; --PCS/Cartron; --kg±5%/Cartron; Carton Size:---*---*---mm(L*W*H)

Dimension: mm (Inch)



Wiring Diagram



Metal case

All material to be ROHS compliant to Directive 2002/95/EC

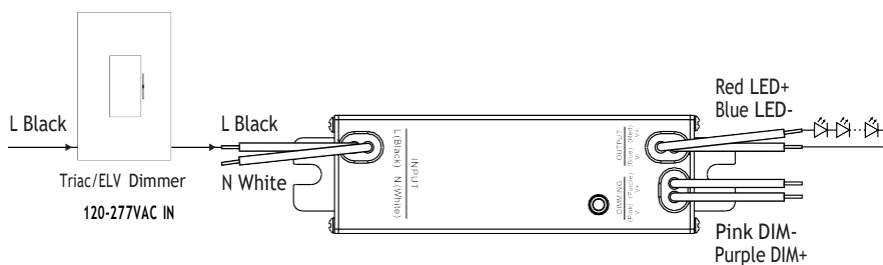
Wires to be Stranded with UL approval

Input: Black & White: 150mm, 18AWG

Output: Red & Blue: 150mm, 18AWG

Dimming: Purple & Pink: 160mm, 20AWG

Triac/ELV

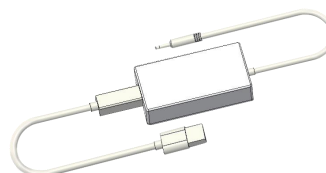


Max. quantity of drivers per miniature circuit breaker

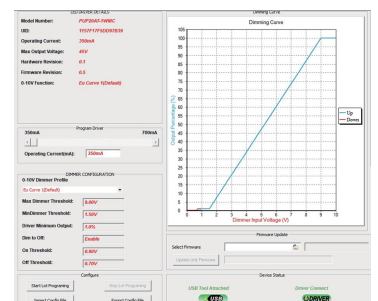
MCB	Input Voltage 120V Drivers	MCB	Input Voltage 120V Drivers
B10	--pcs	C10	--pcs
B13	--pcs	C13	--pcs
B16	--pcs	C16	--pcs
B20	--pcs	C20	--pcs
		D16	--pcs

Programming Current

Program functions: source model, UID, software version number
Hardware version number, maximum output voltage, change current gear Dimming curve selection.

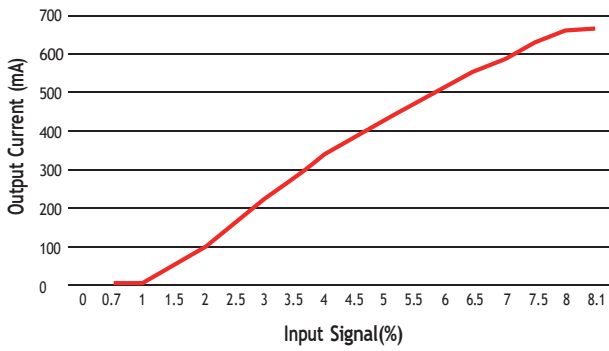


EU-PROG Programming connector

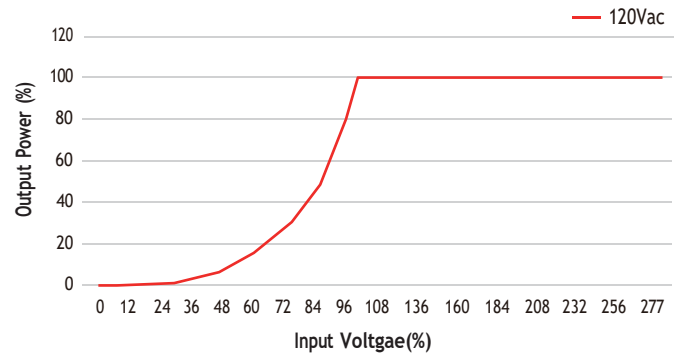


Interface

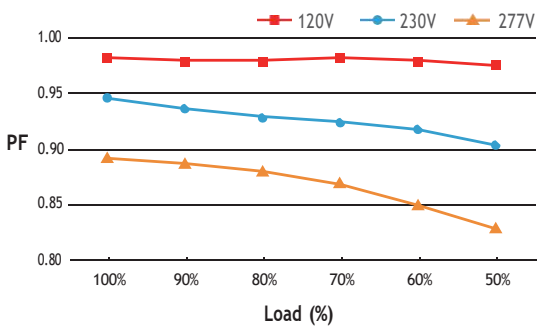
0-10V Dimming Curve



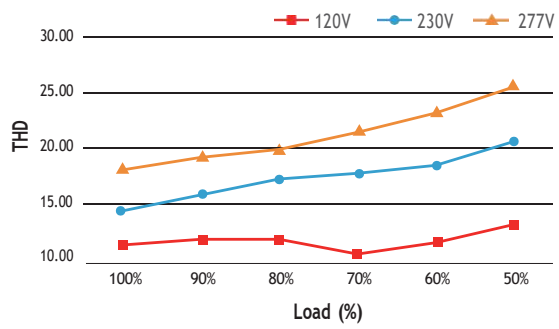
Triac/ELV Dimming Curve



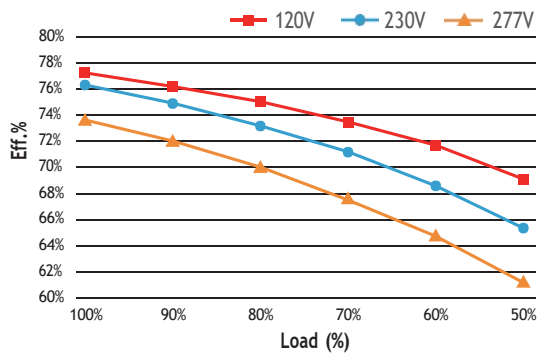
PF vs Load Curve



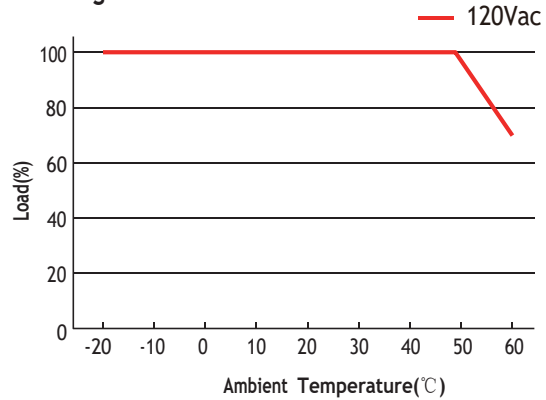
THD vs Load Curve



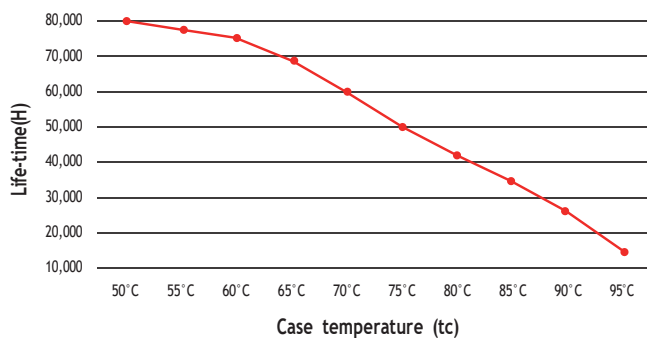
Efficiency vs Load Curve



Derating Curve



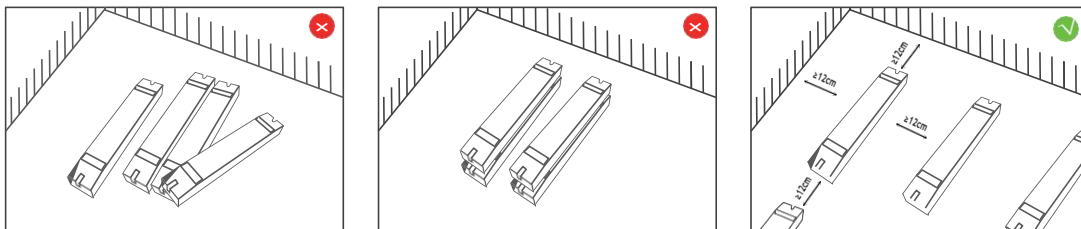
Life-time vs. case temperature



The life-time of the led driver is shown in the figure above (calculated based on the 90% survival rate).

The relation of tc to temperature depends also on the luminaire design.

Installation Precautions



Please do not stack the products. The distance between two products should be >12cm so as not to affect heat dissipation and the lifespan of the products.

Cautions

1. This product must be installed and adjusted by a qualified professional.
2. This product is non waterproof, need to avoid sun and rain. In case of outdoor use, please ensure it is mounted in a water proof enclosure.
3. Good heat dissipation conditions extend product life. Please install the product in a well-ventilated environment.
4. Please make sure LED power supply output voltage, current is used to meet the product requirements.
5. Please ensure that adequate sized cable is used from the controller to the LED lights to carry the current. Please also ensure that the cable is secured tightly in the connector.
6. Due to safety concerns, PVC or rubber cord of 0.75- 2.5mm² is recommended for input and output terminal(s) (excluding signal terminals). Flat power cord is not suitable. Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.
7. In case of malfunction, do not repair it yourself.

※ The contents of this manual are updated without prior notice. If the function of the product you are using is inconsistent with the instructions, the function of the product shall prevail. Please contact us if you have any questions .

Warranty Agreement

1. Warranty periods from the date of delivery : 5 years.
2. Free repair or replacement services for quality problems are provided within warranty periods.

Warranty exclusions below:

1. Beyond warranty periods.
 2. Any artificial damage caused by high voltage, overload, or improper operations
 3. Products with severe physical damage.
 4. Damage caused by natural disasters and force majeure.
 5. Warranty labels and barcodes have been damaged.
 6. No any contract signed by EUCHIPS.
- Repair or replacement provided is the only remedy for customers. EUCHIPS is not liable for any incidental or consequential damage unless it is within the law.
- EUCHIPS has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.