

## PUP40A-2WMC-1200

### Product Features

- Dual-channel output, output current adjustable via DIP switch
- Supports 0-10V, potentiometer, and PWM dimming
- Flicker-free smooth dimming, color temperature range: 2700K-6500K
- Protections: Overload, over-voltage, and short-circuit protection
- UL Class P & Class 2 output
- Complies with UL 8750 & UL 1310 safety standards
- Suitable for Dry , Damp Locations
- Designed for indoor LED lighting applications

#### Application



Down Light



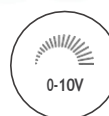
Flicker free



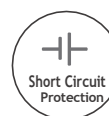
Dimmable



Tunable White



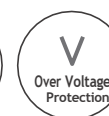
0-10V



Short Circuit Protection



Over Load Protection

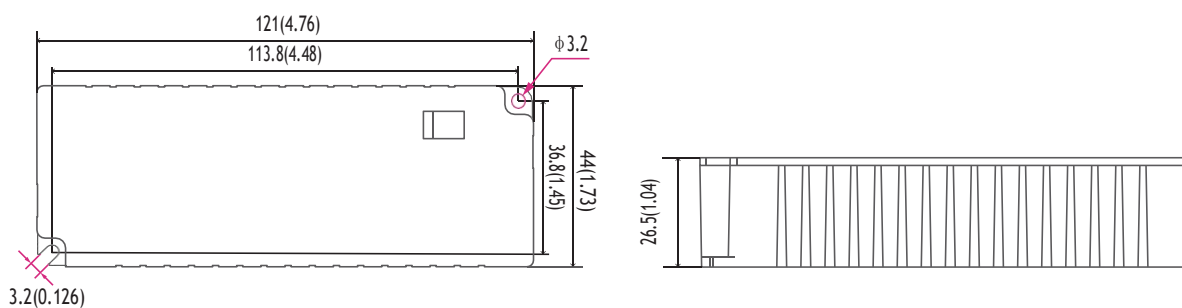


Over Voltage Protection

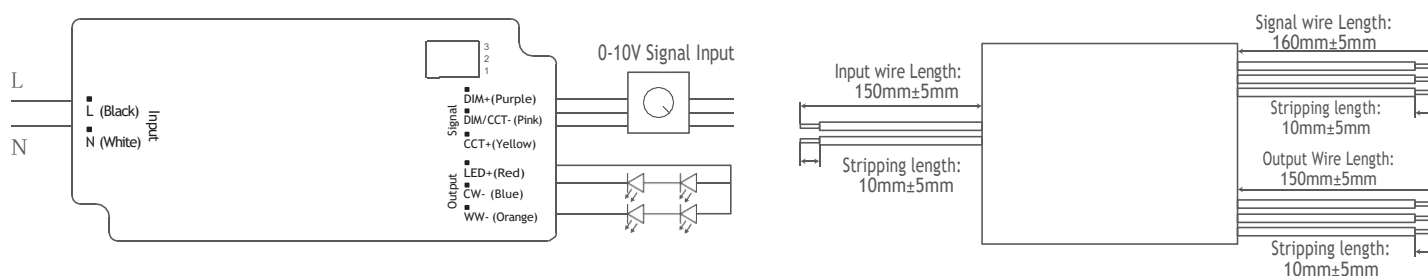
### Technical Paramaters

Model	PUP40A-2WMC-1200				
Input	Efficiency	>85%@120VAC, >86%@277VAC Full load			
	Frequency	50-60Hz			
	Voltage	120VAC-277VAC			
	Current	0.40Amax@120VAC, 0.22A@230AC, 0.19A@277VAC			
	Power Factor	0.98@120VAC, 0.95@230VAC, 0.9@277VAC, Full load			
	THD(full load)	10%@120VAC, 15%@277VAC, Full load			
	Inrush Current	Cold start, 8@120VAC 50us, 20A@277VAC 40us			
	No load power	<1.0W			
	Standby Power	<1.0W			
Output	Current/Voltage/Power	850mA/9-42V/35.7W	900mA/9-42V/37.8W	950mA/9-42V/40W	1000mA/9-40V/40W
		1050mA/9-38V/40W	1100mA/9-36V/40W	1150mA/9-34V/39.1W	1200mA/9-33V/40W
	Channel	2			
	No load output voltage	59V Max			
	Current Accuracy	±5%			
Protection	Current ripple	<5%			
	Short circuit	Shut down output, Auto-recovery after Fault Clearance			
	Overvoltage	Hiccup Protection,, Auto-recovery after Fault Clearance			
Safety & EMC	Overload	Hiccup Protection,, Auto-recovery after Fault Clearance			
	Surge	L-N:1KV			
	Withstand Voltage	I/P-O/P: 3750Vac/1min/<5mA, I/P-PG:1500Vac/1min/<5mA, O/P-PG: 500Vac/1min/<5mA, O/P-DIM( Signal port ):1500Vac/1min/<5mA			
	Safety standards	UL8750, Class P			
	EMI Eission	EN55015,EN61000-3-2 Class C,IEC61000-3-3			
Function	EMC Immunity	FCC class B(120V)/class A(277V)			
	Dimming type	0/1-10V ,Potentiometer,PWM			
	Dimming range	0.1%-100%			
	Color temperature range	2700k-6500k			
	Dimming curve	Linearity			
Others	Flicker	Flicker free			
	Working temp.	(-20~+50) °C [-4°F-122°F]			
	Relative humidity	20-90% RH			
	tc	80°C [ 176°F ]			
	Lifetime	50,000h@tc:80°C[ 176°F ]			
	Warranty Condition	5 years			
	Switch cycle	>25,000 times			
	IP rating	IP20			
	Material	PC			
	Dimension	121*44*26.5mm(L*W*H)			
	Pack Information	Net weight: 230g±5%/PCS; 50PCS/Carton; 12kg±5%/Carton; Carton Size: 286*239*194mm (L*W*H)			

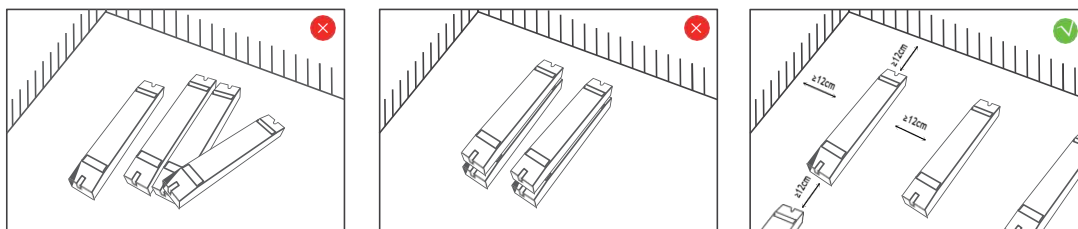
## Dimension mm (Inch)



## Wiring



## 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.

## Max. quantity of drivers per miniature circuit breaker

Specification item	Value	Value	Condition
Inrush current $I_{peak}$	8A (120V)	20A (277V)	Input Voltage 120V/277V
Inrush current $T_{width}$	50us (120V)	40us (277V)	Input Voltage 120V/277V, measured to 50% $I_{peak}$

MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers	MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers
B10	25pcs	52pcs	C10	25pcs	52pcs
B13	32pcs	68pcs	C13	32pcs	68pcs
B16	40pcs	84pcs	C16	40pcs	84pcs
B20	50pcs	105pcs	C20	50pcs	105pcs
			D16	40pcs	84pcs

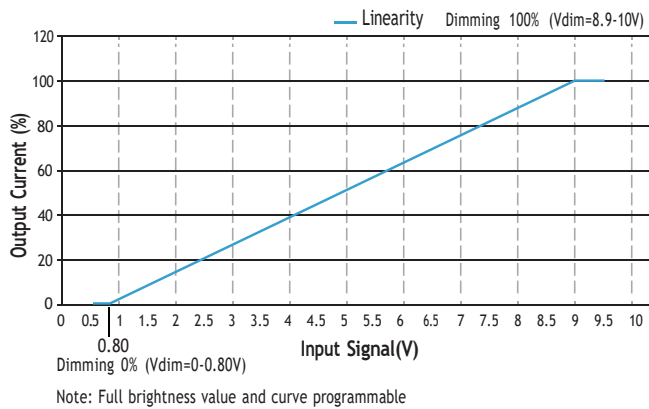
## Current Selection Table

PUP40A-2WMC-1200 is a multi-current dimming driver, output current level selectable by DIP S.W., as the following:

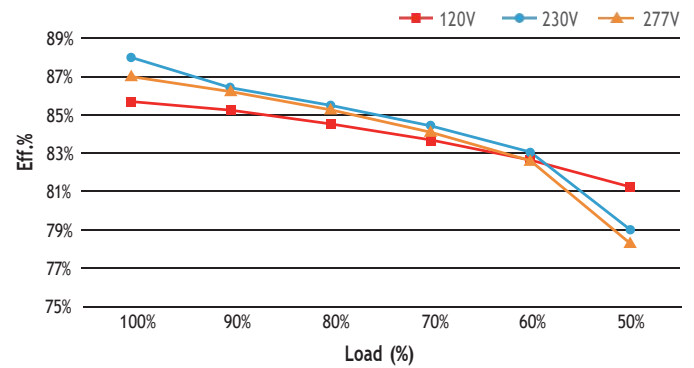
ON	OFF	1	2	3	4	5	6	7	8	9	10	11	12
		850mA	900mA	950mA	1000mA	1050mA	1100mA	1050mA	1200mA				
		9-42V	9-42V	9-42V	9-40V	9-38V	9-36V	9-34V	9-33V				

Remark: Function default setting is: 850mA (@switch are all OFF state)

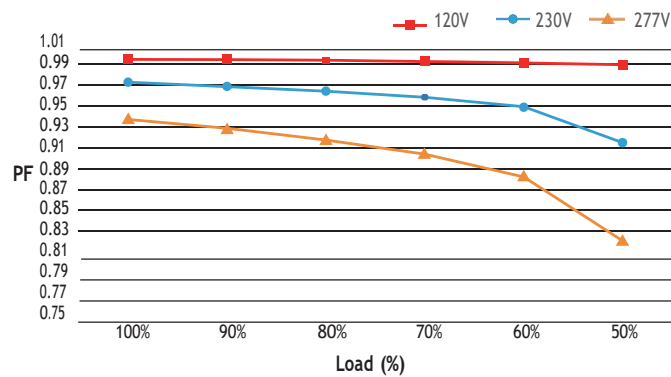
## 0-10V Dimming Curve



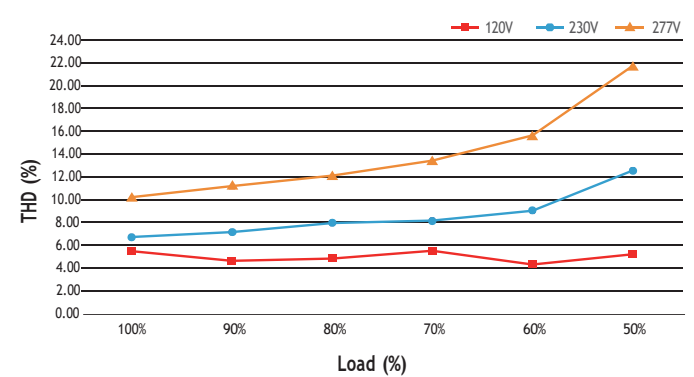
## Efficiency vs Load Curve



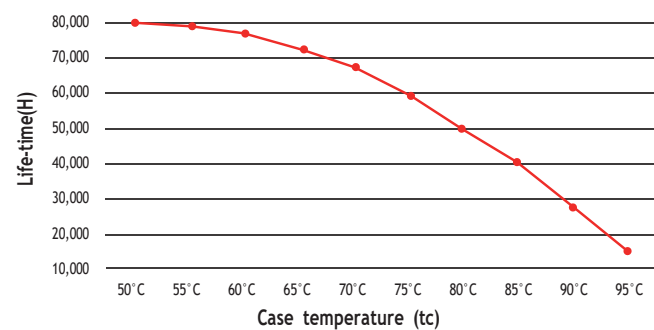
## PF vs Load Curve



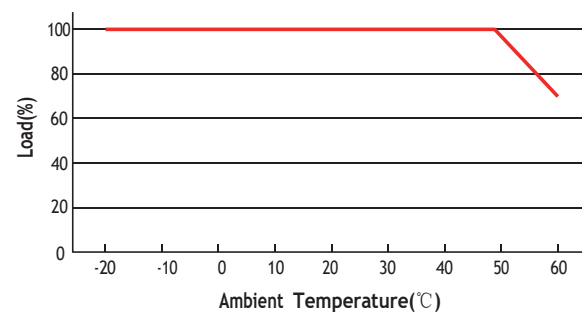
## THD vs Load Curve



## Life-time vs. case temperature



## Derating Curve



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

The relation of  $t_c$  to  $t_a$  temperature depends also on the luminaire design.

## Cautions

This product must be installed and adjusted by a qualified professional.		
1	Confirmation of installation conditions	<ul style="list-style-type: none"> <li>· <b>Waterproof and Protection:</b> Install in a suitable location according to the waterproof and protection requirements of the power supply. Products without waterproof function should be protected from direct sunlight and rain. When installing outdoors, please use a waterproof box for protection.</li> <li>· <b>Heat dissipation requirements:</b> The drive power supply should avoid exposure to high temperature environments. Please ensure that the working environment temperature is within the recommended range. To ensure proper heat dissipation of the drive power supply, a well ventilated area should be selected for installation. Good heat dissipation conditions can help extend product lifespan.</li> </ul>
2	Power check	<ul style="list-style-type: none"> <li>· Before use, check the product parameters and confirm that the output voltage and current of the LED power supply meet the requirements</li> </ul>
3	Safe wiring	<ul style="list-style-type: none"> <li>· Use cables that meet the specifications to ensure that the cross-section of the wire matches the requirements of the driving power supply. Solid cables typically measuring 0.75-2.5 mm<sup>2</sup>, (Please refer to the silk screen printing or wiring diagram in the instruction manual for specific wire diameter requirements).</li> <li>· If the power supply (metal casing) is installed on a grounded lighting component or equipment, the power supply needs to be grounded.</li> </ul>
4	Wiring confirmation	<ul style="list-style-type: none"> <li>· Before power on debugging, ensure that the wiring is secure and avoid poor contact to prevent unstable current or equipment damage.</li> </ul>
5	Repair suggestions	<ul style="list-style-type: none"> <li>· If the product malfunctions, please do not repair it without authorization. If you have any questions, please contact the supplier or sales team for assistance.</li> </ul>

※ 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:

The following situations are not covered by the free warranty or replacement service:

1. Exceeding the warranty period.
2. Damage caused by human factors such as high voltage, overload, and improper operation.
3. The appearance of the product is severely damaged or deformed.
4. Normal wear and tear or aging during regular product use.
5. Damage caused by natural disasters or force majeure factors.
6. The quality inspection label of the product is damaged (QC PASS).
7. No contract or valid invoice proof signed with EUCHIPPS has been provided.

※ Remedies: Repair or replacement is the only remedy provided by EUCHIPPS to the customer, and EUCHIPPS shall not be liable for incidental damages arising from repair or replacement, unless within the scope of applicable law.

※ Adjustment of Warranty Terms: EUCHIPPS reserves the right to modify or adjust the warranty terms, which shall be published in writing.