

PUP40D-2WMC-850

Product Features

- Dual channel constant current output, multi-level current optional
- Support Touch-DIM function
- Dimming range 0.5%-100% dimming, smooth dimming without step sense and stroboscopic
- Short circuit, overload, overvoltage protection, V0 flame retardant housing
- Life of 50,000 hours, 5 years warranty
- Customizable dimming curve
- Built-in PFC chip to improve energy efficiency and reduce pollution
- Suitable for LED indoor lamps, such as downlights, spotlights, panel lights, etc

Application



Down Light

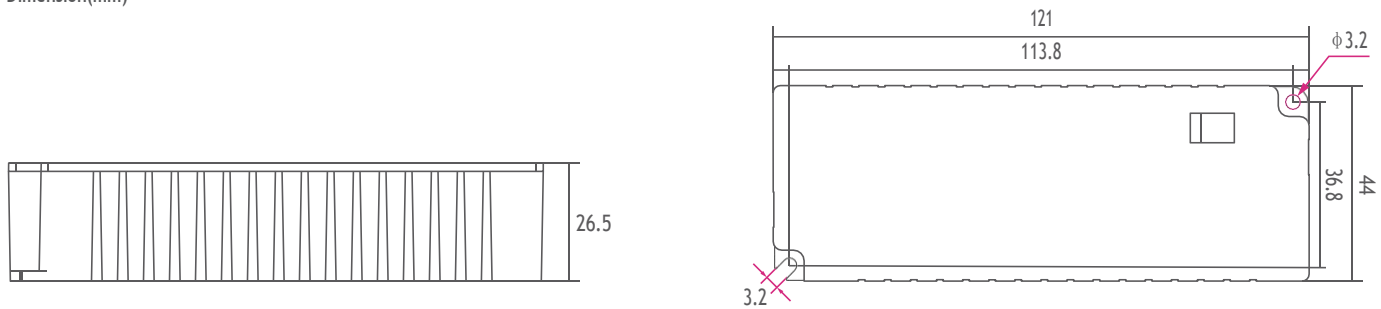


Technical Paramaters

Model	PUP40D-2WMC-850				
Input	Input Voltage	120VAC-277VAC			
	Frequency Range(Hz)	50/60Hz			
	Input Current	0.4Amax@120VAC	0.2Amax@277VAC		
	Power Factor	≥0.95@120VAC, Full load	≥0.9@277VAC, Full load		
	Efficiency	≥87%@120VAC, Full load	≥88%@277VAC, Full load		
	THD	≤10%@120VAC, Full load	<15%@277VAC, Full load		
	Standby power	<0.5W			
	No-load power	<1W			
	Inrush Current	Cold start, 10A@120V 40us 20A@277VAC 40us			
Output	Output Power Range	0W-40W			
	Voltage Accuracy	/			
	Current Accuracy	±5%			
	Output Voltage	500mA/9-48V/24W	600mA/9-48V/28.8W	700mA/9-48V/33.6W	800mA/9-48V/38.4W
	Output Current	550mA/9-48V/26.5W	650mA/9-48V/31.2W	750mA/9-48V/36W	850mA/9-47V/39.95W
	Output Power				
	PstLM	≤1			
	SVM	≤0.4			
	Dimming frequency	/			
	Line Regulation	±5% @Full load			
	Load Regulation	±5% @Full load			
	Turn on delay Time	0.75s, at230Vac (When the light begins to shine)			
Function	Dimming Type	DALI/Touch DIM (Push DIM)			
	Dimming Range	0.5%-100% Dimming to OFF			
	Dimming Curve	Logarithm			
	Flicker free	Flicker free			
Protection	Short circuit	Short circuit No output, troubleshooting output normal			
	Over Current	No output is generated during overcurrent, the output is normal			
	Over load	No output. The system recovers after the fault is rectified			
	Over Voltage	Current down, troubleshooting output normal			
	Over temperature	/			
Safety& EMC	Surge	L-N 6KV			
	Withstand Voltage	I/P-O/P: 3000Vac/1min/<5mA DALI(Signal port)-O/P:1500Vac/1min/<5mA			
	Safety Standards	CCC (China)	GB19510.1 · GB19510.14	TUV (Germany)	EN61347-1 · EN61347-2-13 · EN62493
		CB (CBmember states)	IEC61347-1 · IEC61347-2-13	CE (European Union)	EN61347-1 · EN61347-2-13 · EN62384
		RCM (Australia)	AS 61347-1 · AS 61347-2-13	EMEC (Europe)	EN61347-1 · EN61347-2-13 · EN62384
	EMC Emission	CCC (China)	GB/T17743 · GB17625.1		
		CE (European Union)	EN55015 · EN61000-3-2 · EN61000-3-3 · EN61547		
		RCM (Australia)	EN55015 · EN61000-3-2 · EN61000-3-3 · EN61547		
EMC Immunity	EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547				

Environment	Working Temp.	-20℃ -50℃
	Storage Temp.	-40℃ -85℃
	Storage Humidity	20-90%RH (No condensation)
Others	RoHS	Comply with 2011/65/EU
	tc	80℃
	material	PC
	IP Rating	IP20
	Lifetime	50,000h@tc:80℃
	Warranty Condition	5years
	Switch Cycle	25,000times
	Body size	121*44*26.5mm (L*W*H)
	Packing(weight)	Net weight: 215g±5%/PCS; 50PCS/Carton; 11.25kg±5%/Carton; Carton Size: 286*239*194mm(L*W*H)
	Noise	In a quiet environment, no noise beyond 30-50cm
Remark	All parameters were measured at an input voltage of 230VAC/50Hz and an ambient temperature of 25 °℃ without any special instructions.	

Dimension(mm)



Wiring Diagram

Plastic case

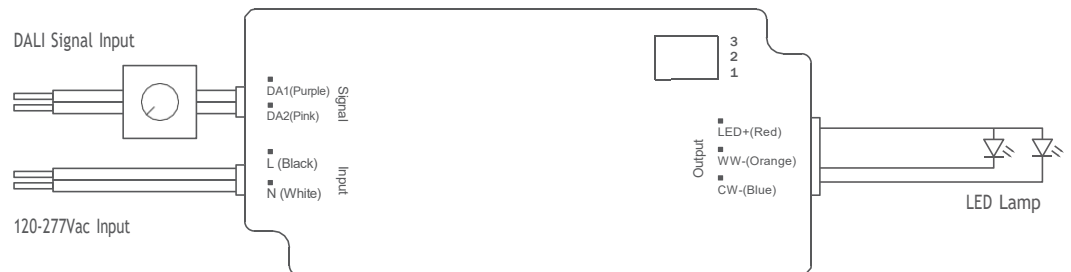
All materials comply with the ROHs requirements of Directive 2002/95/EC

The cable must be UL certified

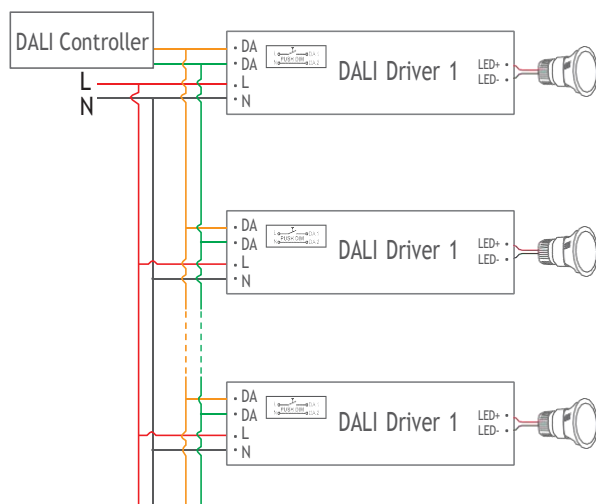
Input: Black and white :150mm, 18AWG

Output: Red Blue Orange :150mm, 18AWG

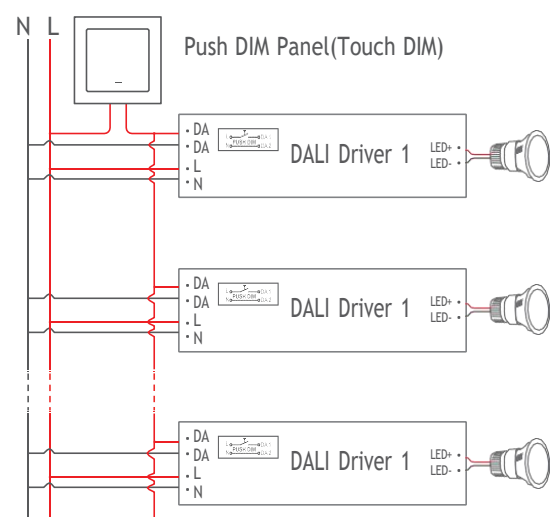
Dimming: Purple and pink :160mm, 20AWG



DALI Diagram



Touch DIM(Push DIM) Diagram

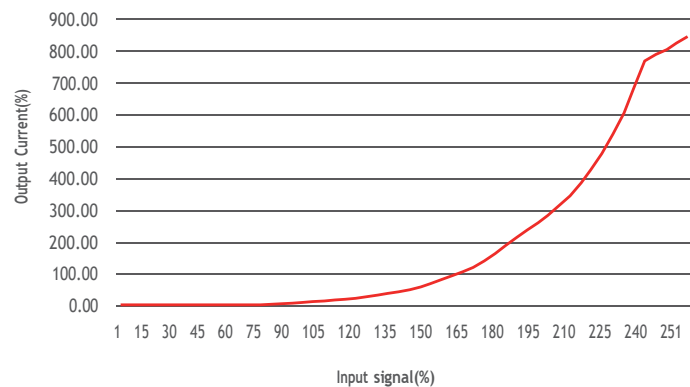


Remark: Only use open push button without indicator light. Maximum cable length between each Unit: 20 meters.

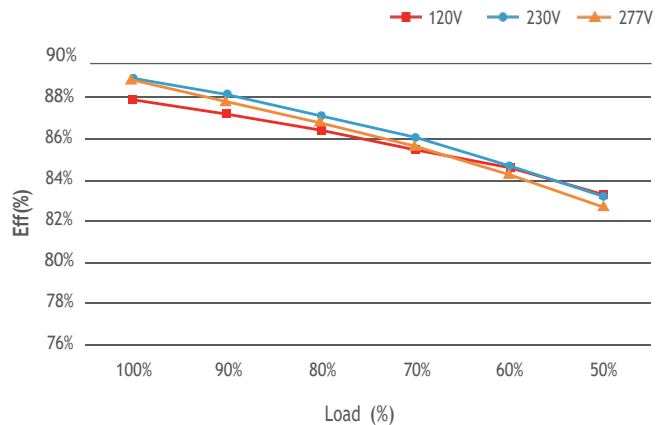
Push DIM Function

1. Press the Push DIM (Touch DIM) switch (<0.5 seconds) to control the light on or off.
2. Long press the Push DIM (Touch DIM) switch (>0.5 seconds) to adjust the brightness of the lamp. The light is dimmed or brightened, and the switch changes with each press.
3. Double click Push DIM (Touch DIM) switch (<0.3 seconds), all connected lamps will reach the brightest state.
4. Brightness adjustment range is 1%-100%.
5. With the power failure memory function, the power will be restored to the state of the last power failure.

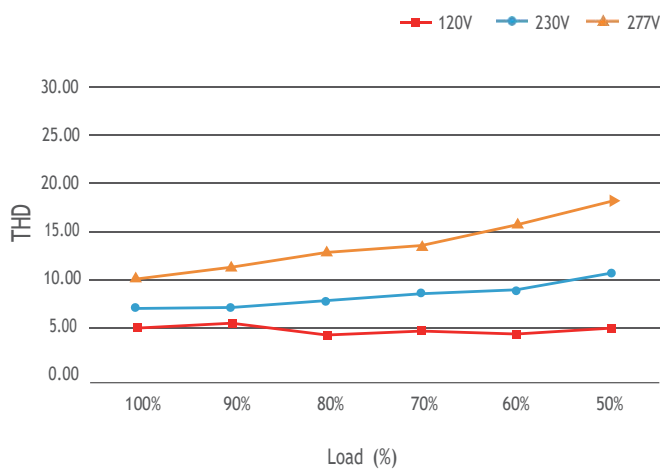
Dimming Curve



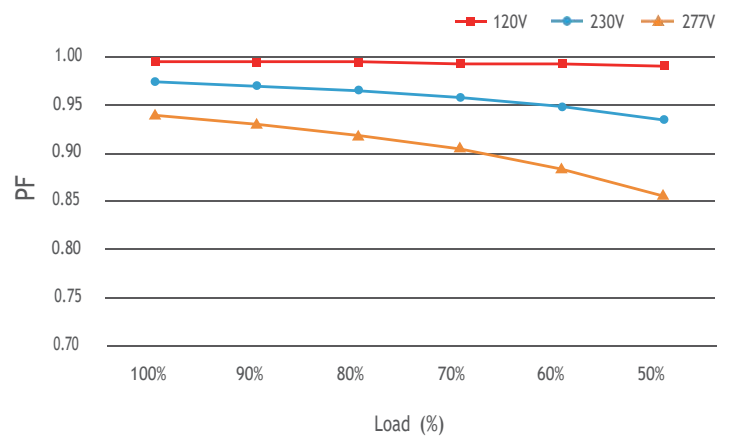
Efficiency vs Load Curve



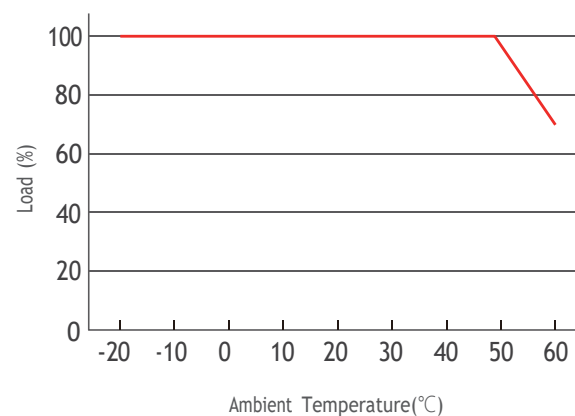
THD vs Load Curve



PF vs Load Curve



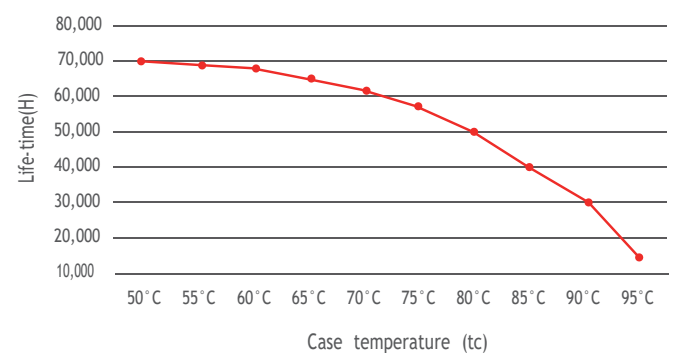
Derating Curve



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 t_c to temperature depends also on the luminaire design.

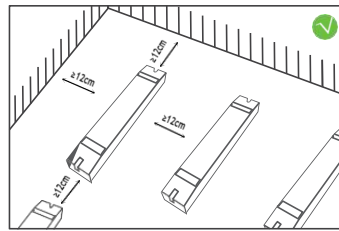
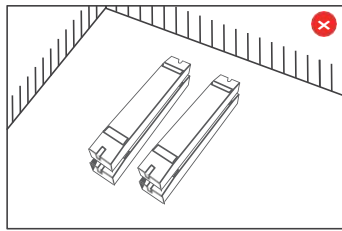
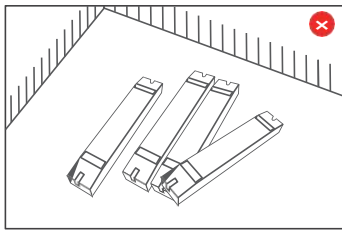


Max. quantity of drivers per miniature circuit breaker

Specification item	Value	Value	Condition
Inrush current Ipeak	10A (120V)	20A (277V)	Input Voltage 120V/277V
Inrush current Twidth	40us (120V)	40us (277V)	Input Voltage 120V/277V, measured ta 50% Ipeak

MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers	MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers
B10	25pcs	50pcs	C10	25pcs	50pcs
B13	32pcs	65pcs	C13	32pcs	65pcs
B16	40pcs	80pcs	C16	40pcs	80pcs
B20	50pcs	100pcs	C20	50pcs	100pcs
			D16	40pcs	80pcs

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.

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.

Non-warranty regulations:

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

- 1, has exceeded the warranty service period;
- 2, high voltage, overload, improper operation and other man-made damage;
- 3, the product shape is seriously damaged or deformed;
4. Damage caused by natural disasters and force majeure;
- 5, product warranty label and product unique bar code damage;
6. No contract or invoice voucher signed by Oche.

- Repair or replacement is the only remedy Oches has for the customer. Oches shall not be liable for any consequential damages, except to the extent of applicable law.
- Oches reserves the right to amend or adjust this warranty, which shall be published in writing.

Cautions

1. This product should be installed by qualified personnel.
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.