

PUP20A-2WMC

Summary












PUP20A-2WMC is a move light toning constant-current dimmer drives, can provide 350/400/450/500/550/600/650/700mA 8-speed current LED driver, output current can be easily set by DIP switch Smooth dimming curve, no flicker.

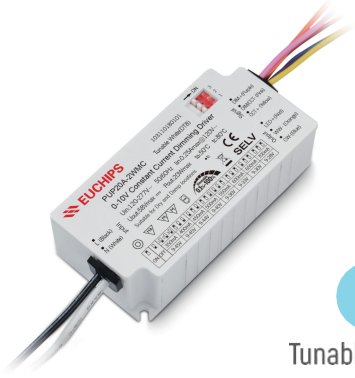
Product Features

- Dual channel constant current output, multi-level current optional
- Input voltage: 120-277V
- Dimming range: 0.1-100%, smooth dimming effect, no stroboscopic
- Short circuit protection, overload protection, overvoltage protection
- Suitable for LED indoor lamps, such as downlights, spotlights, panel lights, etc

Application





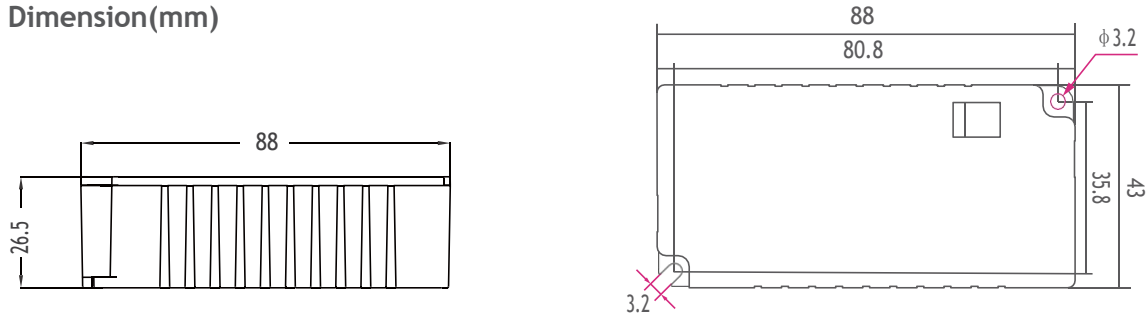


Tunable White(DT8)

Technical Paramaters

Model	PUP20A-2WMC			
Input	Voltage	120VAC-277VAC		
	Frequency	47/63Hz		
	Efficiency	84%@120VAC, Full load		
	PF	≥0.97@120VAC , Full load , ≥0.9@277VAC , Full load		
	THD(full load)	<13%@120VAC, Full load , <13%@277VAC, Full load		
	Current	0.25Amax@120VAC , 0.15Amax@277VAC		
	Inrush Current	Cold start,4.25A@120VAC 30us 10.3A@277VAC, 24us		
	Standby Power	<1W		
	No load power	<1W		
	Turn on delay Time	≤ 0.75 s, at230Vac (When the light begins to shine)		
Output	Current/Voltage/Power	350mA/9-45V/15.75W 400mA/9-45V/18W	450mA/9-44V/19.8W 500mA/9-40V/20W	550mA/9-36V/19.8W 600mA/9-33V/19.8W
	Channel	2		
	No load output voltage	58V Max		
	Ripple current	<5%		
	Current Accuracy	±5%		
	Output Voltage	±5%		
Protection	Over Voltage	Hiccup, recovers after fault condition is removed		
	Over load	Hiccup, recovers after fault condition is removed		
	Short circuit	Close output, recovers automatically after fault removed		
Safety & EMC	Surge	L-N: 2KV		
	Withstand Voltage	I/P-O/P: 2000VAC/1min/5mA ; I/P-O-10V: 1500VAC/1min/5mA ; O/P-DIM(Signal port 0-10V): 1500VAC/1min/5mA		
	Insulation Resisance	5MΩ		
	Safety standards	EN61347, GB19510		
	EMI Eission	EN55015, EN61000-3-2		
	EMC Immunity	FCC class B(120V)/class A(277V)		
Function	Dimming type	0-10V / PWM		
	Dimming range	0.1%-100%		
Others	Dimension	88*43*26.5mm (3.46*1.69*1.04 Inch) (L*W*H)		
	Pack Information	N.W: 146g(0.32 lb)±5%/PCS; 50PCS/Cartron; 7.8kg(17.2lb)±5%/Cartron; Carton Size: 234*222*194mm(9.21*8.74*7.63 Inch)(L*W*H)		
	IP rating	IP20		
	Working temp.	-20℃-50℃ [-4°F-122°F]		
	tc	80℃ [176°F]		
	Relative humidity	-40℃-85℃ [-40°F-185°F] , 20-90%RH		
	Warranty	5 year		
	Lifetime	50,000h@tc:85℃ [185°F]		
	Material	PC		
	Switch cycle	>25,000 times		

Dimension(mm)



Wring Diagram

Plastic case

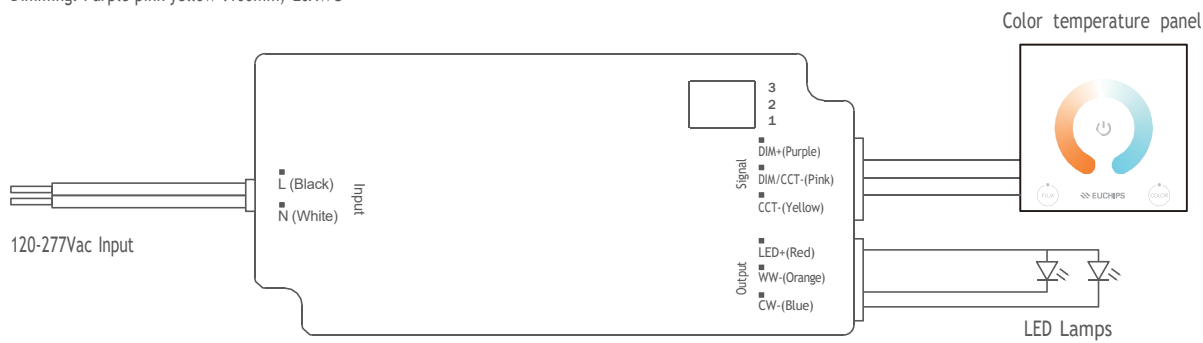
All materials comply with the ROHs requirements of Directive 2002/95/EC

The cable must be UL certified

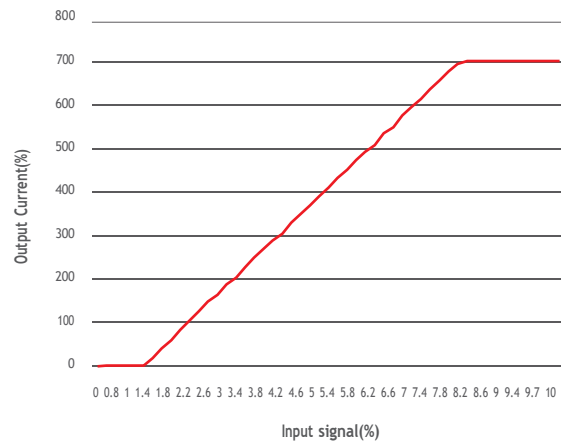
Input: Black and white :150mm, 18AWG

Output: Red and blue :150mm, 18AWG

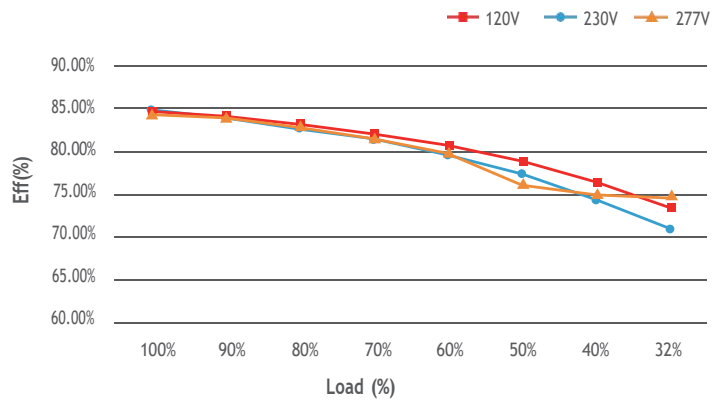
Dimming: Purple pink yellow :160mm, 20AWG



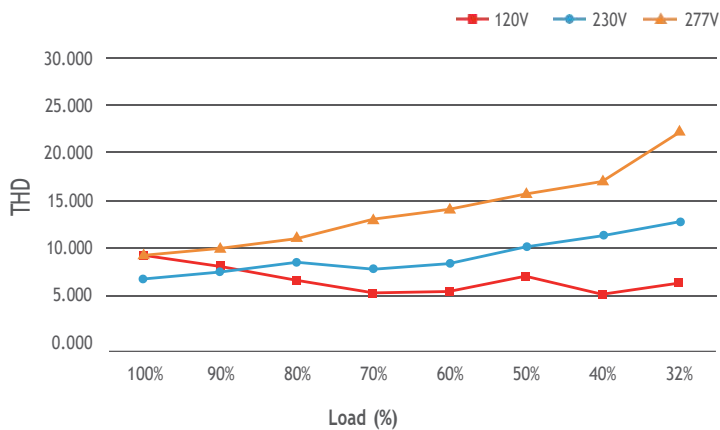
Dimming Curve



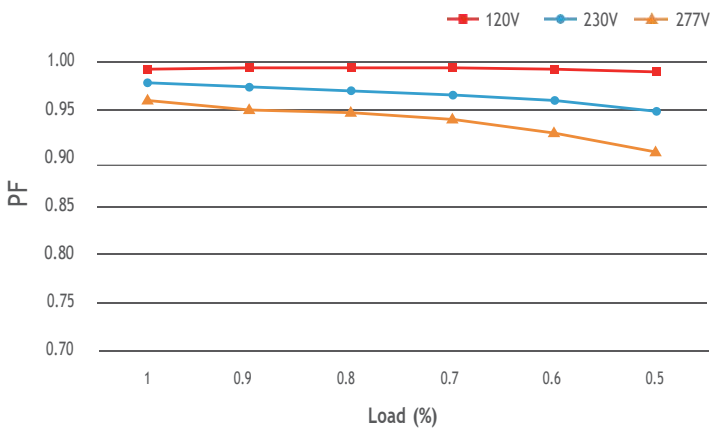
Efficiency vs Load Curve



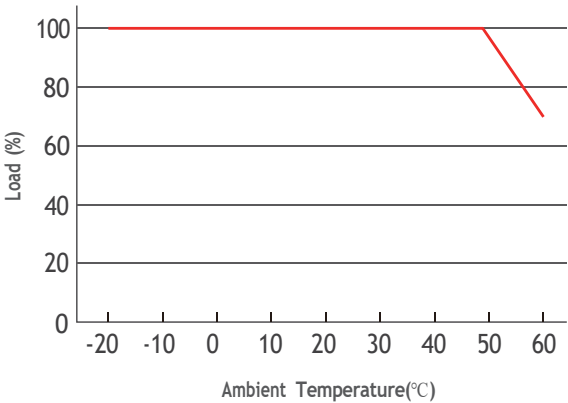
THD vs Load Curve



PF vs Load Curve



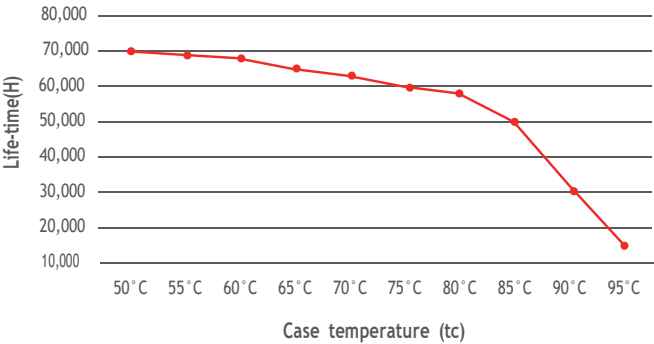
Derating Curve



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.

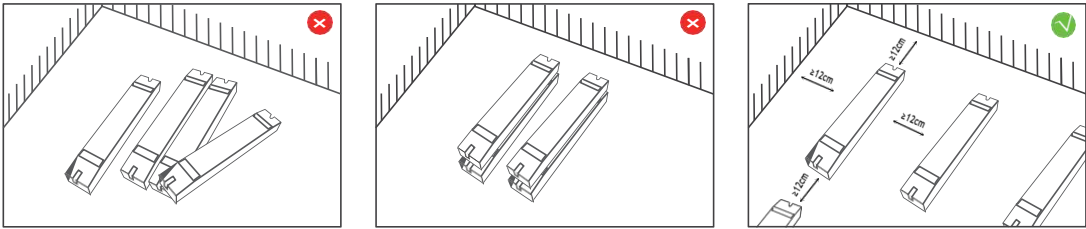


Max. quantity of drivers per miniature circuit breaker

Specification item	Value	Value	Condition
Inrush current Ipeak	4.25A (120V)	10.3A (277V)	Input Voltage120V/277V
Inrush current Twidth	30us (120V)	24us (277V)	Input Voltage120V/277V, measured ta 50% Ipeak

MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers	MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers
B10	40pcs	66pcs	C10	40pcs	66pcs
B13	52pcs	86pcs	C13	52pcs	86pcs
B16	64pcs	106pcs	C16	64pcs	106pcs
B20	80pcs	133pcs	C20	80pcs	133pcs
			D16	64pcs	106pcs

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.