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PUP20D-1WMC-430

Product Features

- \cdot Single-channel constant current output, multi-stage current selectable
- · Support Touch-DIM function
- · Dimming range 0.1%-100% dimming, smooth dimming without step sense and stroboscopic
- · Short circuit, overload, overvoltage protection, V0 flame retardant housing
- \cdot Life of 50,000 hours, 5 years warranty
- \cdot Customizable dimming curve
- \cdot Built-in PFC chip to improve energy efficiency and reduce pollution
- \cdot Suitable for LED indoor lamps, such as downlights, spotlights, panel lights, etc

Application

Down Light





SELV

X

CE

110

W/W

Short Circ

Technical Paramaters

Model	PUP20D-1WMC-430	JP20D-1WMC-430				
	Input Voltage	120VAC-277VAC				
	Frequency Range(Hz)	50/60Hz				
	Input Current	0.21Amax@120VAC 0.1Amax@277VAC 0.12Amax@230VAC				
	Power Factor	≥0.98@120VAC, Full load ≥0.95@277VAC, Full load				
Input	Efficiency	284%@120VAC, Full load 284%@277VAC, Full load				
	THD	≤10%@120VAC, Full load <15%@277VAC, Full load				
	Standby power	<1W				
	No-load power	<1W				
	Inrush Current	Cold start, 4.84A@120V 9.2us 10.6A@277VAC 11.2us				
	Output Power Range	0W-20W				
	Voltage Accuracy	1				
	Current Accuracy	±5%				
	Output Voltage	250mA/9-45V/11.25W300mA/9-45V/13.5W350mA/9-45V/15.75W400mA/9-45V/18W				
	Output Current					
Output	Output Power	200IIIA/9-43V/12.0W 330IIIA/9-43V/14.03W 300IIIA/9-43V/17.1W 430IIIA/9-43V/19.33W				
	PstLM	<u>≤1</u>				
	SVM	≤0.4 Current Selection Table				
	Dimming frequency	/				
	Line Regulation	±3% @Full load				
	Load Regulation	±3% @Full load Remark: Function default setting is: 250mA (@switch are all OFF state)				
	Turn on delay Time	0.75s, at230Vac (When the light begins to shine)				
	Dimming Type	DALI/Touch DIM (Push DIM)				
Function	Dimming Range	0.1%-100% Dimming to OFF				
i unccion	Dimming Curve	Logarithm				
	Flicker free	Flicker free				
	Short circuit	There was no output due to short circuit. The output was normal after the fault was eliminated				
Protection	Over load	Reduce the current and recover automatically after the fault is eliminated				
	Over Voltage	Reduce the current and recover automatically after the fault is eliminated				
	Surge	L-N 0.5KV				
FMC	Withstand Voltage	I/P-O/P: 3000Vac/1min/<5mA DALI(Signal port)-O/P:1500Vac/1min/<5mA				
Ente	DALI Standard	IEC 62386-101: 2014, IEC 62386-102: 2014; IEC 62386-207: 2009, DALI 2.0				
	Working Temp.	-20°C ~50°C (-4° F-122° F)				
	Storage Temp.	-40°C-85°C (-40°F-185°F) 20-90%RH (No condensation)				
	tc	80°C [176°F]				
Others	material	PC				
others	IP Rating	IP20				
	Lifetime	50,000h@tc:80°C [176°F]				
	Switch Cycle	25,000times				
	Body size	88*43*26.5mm (3.46*1.69*1.04 Inch) (L*W*H)				
	Packing(weight)	Net weight: 177g (0.39Ib) ±5%/PCS; 50PCS/Carton; 9.35kg (20.61Ib) ±5%/Carton; Carton Size: 234*222*194mm (9.21*8.74*7.63 Inch) (L*W*H)				

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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 Black :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 and hold Touch DIM for at least 8 seconds to switch to Touch DIM mode.

2. Short press the Touch DIM switch (<0.5 seconds) to control the brightness of the light.

3. Press and hold the Touch DIM switch (>0.5 seconds) to adjust the brightness of the light fixture. The brightness changes with each press of the switch.

4. Double click the Touch DIM switch (<0.3 seconds), and all connected lights will reach their brightest state.

5. Click three times (<0.3 seconds) to enter the color temperature adjustment mode of the lamp. Long press to adjust the color temperature, and short press to exit the color temperature adjustment mode.

6. When the light fixture is in the off state, long press the Touch DIM switch to turn on the light fixture and adjust the brightness according to the direction of change.

7. The brightness adjustment range is 1% -100%.

8. Equipped with power-off memory function, it will restore to the previous power-off state when powered on again.ame circuit)

Max. quantity of drivers per miniature circuit breaker

Specification item	Value	Value	Condition
Inrush current Ipeak	4.84A (120V)	10.6A (277V)	Input Voltage120V/277V
Inrush current Twidth	9.2us (120V)	11.2us (277V)	Input Voltage120V/277V, measured ta 50% Ipeak

МСВ	Input Voltage 120V Drivers	Input Voltage 277V Drivers	МСВ	Input Voltage 120V Drivers	Input Voltage 277V Drivers
B10	55pcs	125pcs	C10	55pcs	125pcs
B13	72pcs	162pcs	C13	72pcs	162pcs
B16	88pcs	200pcs	C16	88pcs	200pcs
B20	111pcs 250pcs		C20	111pcs	250pcs
			D16	88pcs	200pcs

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.

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Dimming Curve



Input signal(%)

 88%
 86%

 84%
 86%

 84%
 86%

 82%
 80%

 78%
 76%

 76%
 76%

 74%
 90%
 80%
 70%
 60%
 50%

Load (%)

THD 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 ta temperature depends also on the luminaire design.



Case temperature (tc)

User's manual: 2025.04

Efficiency vs Load Curve

PF vs Load Curve

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Cautions

Thi	s product must be	product must be installed and adjusted by a qualified professional.				
1	Confirmation of installation conditions	 Waterproof and Protection: 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. Heat dissipation requirements: 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. 				
2	Power check	· Before use, check the product parameters and confirm that the output voltage and current of the LED power supply meet the requirements				
3	Safe wiring	 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 mm², (Please refer to the silk screen printing or wiring diagram in the instruction manual for specific wire diameter requirements). If the power supply (metal casing) is installed on a grounded lighting component or equipment, the power supply needs to be grounded. To avoid hot swapping, power off and restart the driver before connecting the LED load. 				
4	Wiring confirmation	· Before power on debugging, ensure that the wiring is secure and avoid poor contact to prevent unstable current or equipment damage.				
5	Repair suggestions	· 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.				

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

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