

PCE6-1U24V

Summary

PCE6-1U24V is a 6W constant voltage LED driver, with Compact body design, minimum mounting aperture 28mm.



Product Features

- Single channel constant Voltage output
- Wide voltage input: 100-277VAC
- Compact size
- Short circuit, over load, over current, Over Temperature protections
- Suitable for constant voltage lamps

Application



Down Light



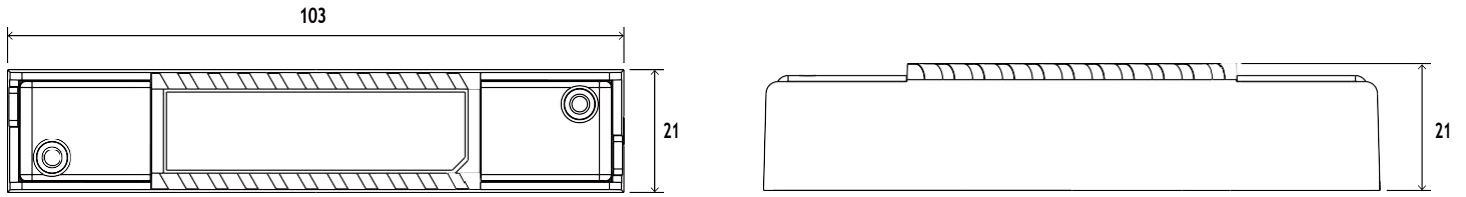
SELV



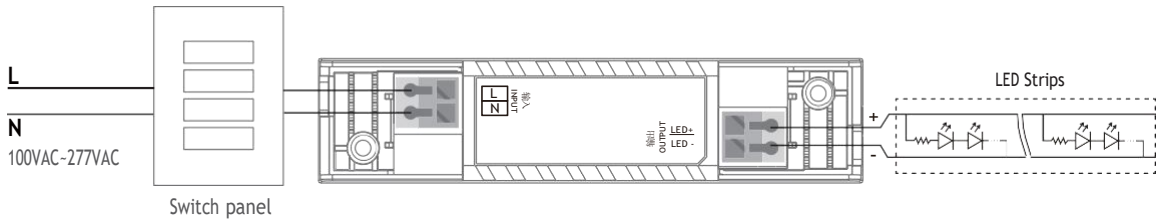
Technical Parameters

Model	PCE6-1U24V	
Input	Efficiency	≥83% @100/120/230/277VAC, Full load
	Voltage	100VAC-277VAC
	Frequency Range(Hz)	50/60Hz
	Power Factor	>0.95 @100VAC, >0.95 @120VAC, >0.9 @230VAC, >0.83 @ 277VAC, Full load
	THD(full load)	<15% @100VAC, <15% @120VAC, <15% @230VAC, <20% @ 277VAC, Full load
	AC Current(max)	0.08 Amax@120VAC
	No load Power	≤0.5W
	Inrush Current(max)	Cold start, 10A@120VAC 100us
	Turn on delay Time	≤0.75 s, at120Vac (When the light begins to shine)
Output	Current	0.25A
	Voltage	24VDC
	Power	6W
	Channel	1
	Output Voltage	±5%
	Ripple	20%
	Frequency	65K
Protection	Short Circuit	Short circuit without output, troubleshooting results in normal output
	Over Load	Reduce voltage protection, troubleshoot and output normally
	Over Current	Reduce voltage protection, troubleshoot and output normally
	Over Temperature	No output, can be restored by re powering on after removing the fault
Safety& EMC	Surge	L-N:1KV
	Withstand Voltage	I/P-O/P: 3750VAC/1min/5mA
	Safety Standards	EN61347-1 EN61347-2-13 UL8750 UL1310
	EMI	EN55015 FCC Part 15 Class B
	Other EMC	EN61000-3-3 EN61000-3-2 EN61547
Others	Insulation Resisance	5MΩ
	Working Temp.	-20℃-50℃
	Storage Temp., Humidity	-40℃-85℃, 20-90%RH
	tc	80℃
	Material	PC
	IP Rating	IP20
	Lifetime	50,000h@tc:80℃
	Warranty Condition	5 years
	Switch Cycle	>25,000 times
	Packing(weight)	Net weight: 35g±5%/PCS; 200PCS/Carton; 7.5 kg±5%/Carton; Carton Size: 217*217*228mm(L*W*H)
Dimension	103*21*21mm (L*W*H)	

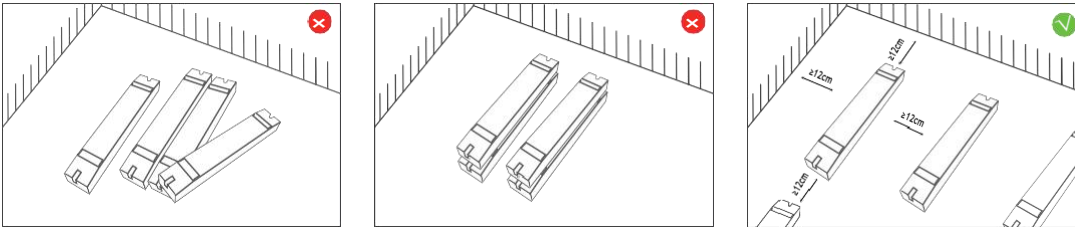
Dimension(mm)



Wiring



Installation Precautions



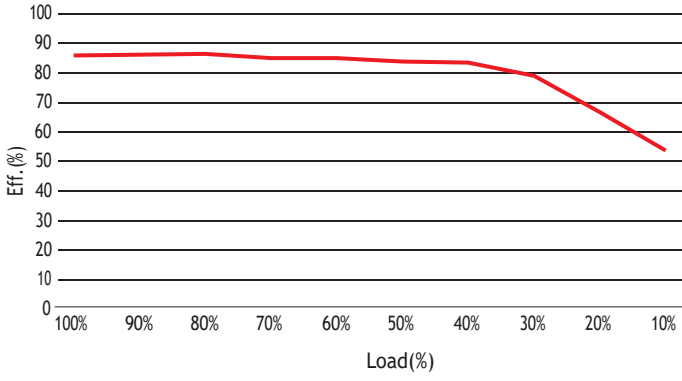
Please do not stack the products. The distance between two products should be >12cm so as not to affect heat dissipation and the lifespan of the products.

Max. quantity of drivers per miniature circuit breaker

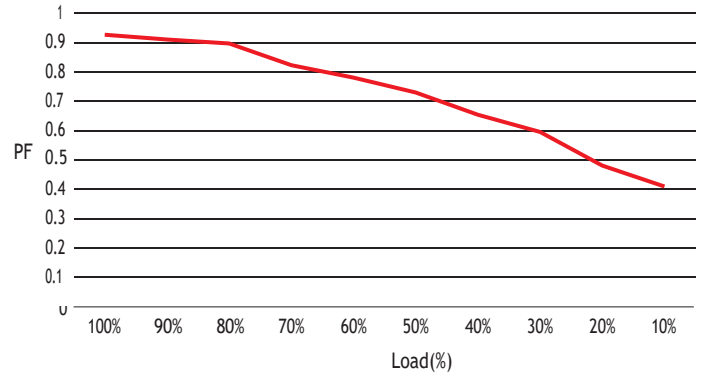
Specification item	Value	Condition
Inrush current I_{peak}	10A	Input Voltage 230VAC
Inrush current T_{width}	100us	Input Voltage 230VAC, measured to 50% I_{peak}

MCB	Input Voltage 230V Drivers	MCB	Input Voltage 230V Drivers
B10	85pcs	C10	125pcs
B13	111pcs	C13	162pcs
B16	137pcs	C16	200pcs
B20	171pcs	C20	250pcs
		D16	200pcs

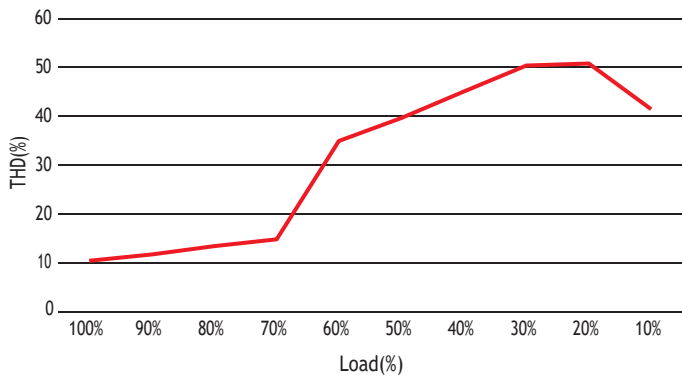
Efficiency VS Load



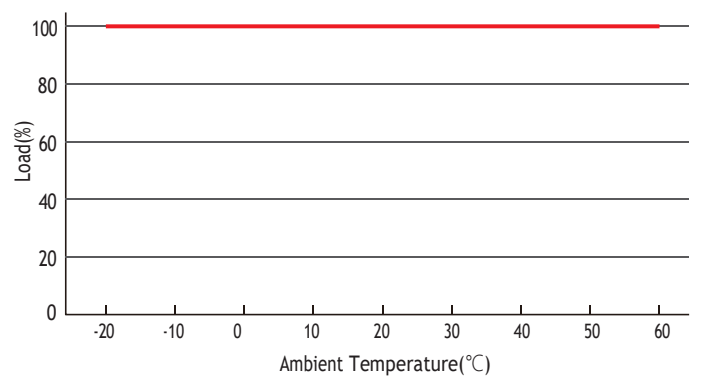
PF VS Load



THD VS Load



Derating Curve



Cautions

This product must be installed and adjusted by a qualified professional.		
1	Confirmation of installation conditions	<ul style="list-style-type: none"> · 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	<ul style="list-style-type: none"> · 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	<ul style="list-style-type: none"> · 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.
4	Wiring confirmation	<ul style="list-style-type: none"> · Before power on debugging, ensure that the wiring is secure and avoid poor contact to prevent unstable current or equipment damage.
5	Repair suggestions	<ul style="list-style-type: none"> · 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. Wear or aging that occurs during normal use of the product.
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.

※Remedial measures: Repair or replacement is the only remedy provided by Oches to the customer, and Oches 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.