

PES60-1W12V
Product Feature

- Insolated PC design
- Isolated design,safe and reliable
- Protections: Short circuit, Over load, over current
- Protection grades is as high as IP65
- 5 years warranty


Application


Light box


RoHS SELV IP65


Flicker free


 Short Circuit
Protection

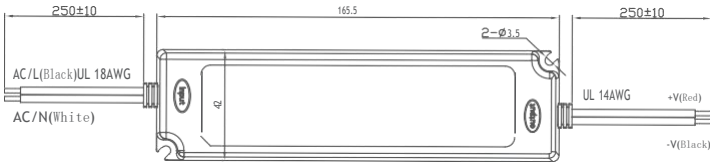
 Over Load
Protection

 Over Current
Protection

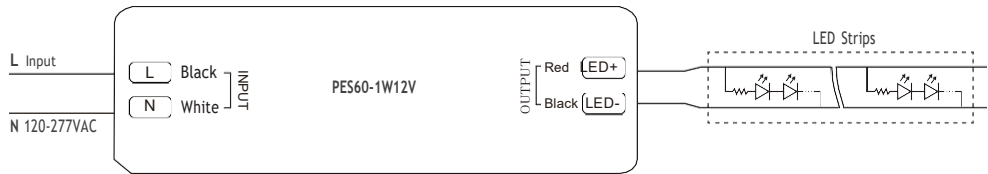
Technical Parameters

Model	PES60-1W12V		
Input	Efficiency	≥84%@120VAC, full load ≥84%@277VAC, full load	
	Voltage	120VAC-277VAC	
	Frequency	50/60Hz	
	Current	0.75Amax@120VAC 0.33Amax@277VAC	
	PF	≥0.95@120VAC, full load ≥0.95@277VAC, full load	
	THD	<10%@120VAC, full load <20%@277VAC, full load	
	Inrush Current	Cold start,30A@120VAC 305us Cold start,42A@277VAC 312us	
	No load power	<0.5W	
Turn On Delay Time	≤0.5s, at230Vac (When the light begins to shine)		
Output	Current	5A	
	Voltage	12VDC	
	Power	60W	
	Channel	1	
	Voltage Accuracy	±5%	
	Ripple	≤216mV	
	Over power limit	≥126%	
Protection	Short Circuit	Short circuit without output, troubleshooting results in normal output	
	Over Load	Reduce current hiccup protection, troubleshooting output normal	
	Over Current	Reduce current hiccup protection, troubleshooting output normal	
Safety & EMC	Lightning Surge	L-N:2kV	
	Withstand Voltage	I/P-O/P:3750VAC/1min/5mA	
	Safety Standards	EN61347, GB19510, UL8750	
	EMC Eission	EN55015, FCC Part 15 Class B	
	EMC Immunity	EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547	
Insulation Resisance	5MΩ		
Others	Working Temp.	(-20~+50)°C (-4°F-122°F)	
	Storage Temp.; Humidity	(-40~+85)°C (-40°F-185°F)	
	Tc	85	
	Material	PC	
	IP Rating	IP65 °C	
	Lifetime	50,000h@tc:85 (185°F)	
	Warranty Condition	5 years	
	Switch Cycle	>25,000 times	
	Packing Size	Net weight: 405g(0.893 lb)±5%/PCS; 30PCS/Carton; 12.5kg(2.76 lb)±5%/Carton; Carton Size: 333*218*205mm(13.11*8.56*8.7 inch)(L*W*H)	
	Dimension	165.5*42*34mm(6.52*1.65*1.34 inch)(L*W*H)	

Dimension(mm)



Wiring Diagram



PC case

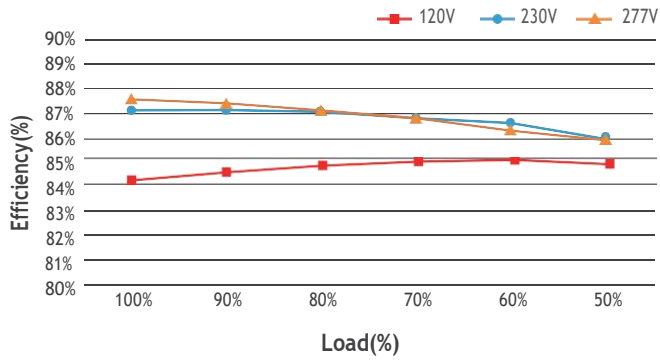
All material to be ROHs compliant to Directive 2002/95/EC

Wires to be Stranded with UL approval

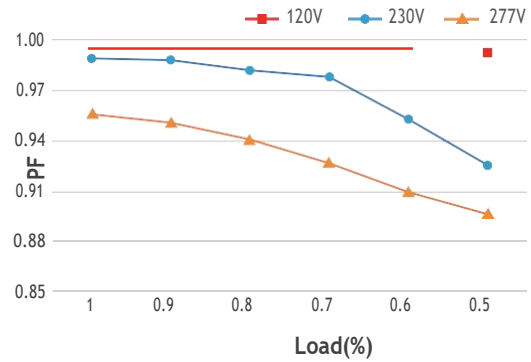
Input: Black & White: 170mm, 18AWG

Output: Red & Blue: 170mm, 18AWG

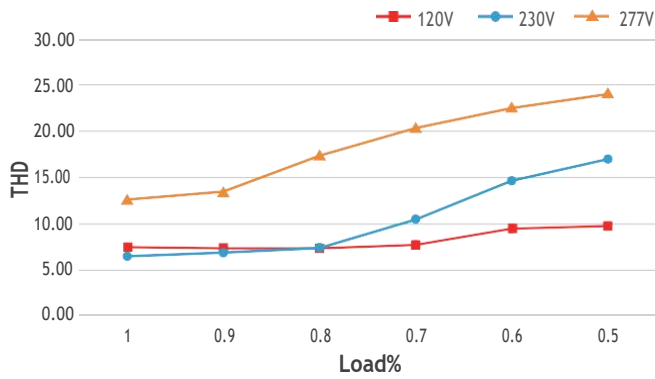
Efficiency vs Load



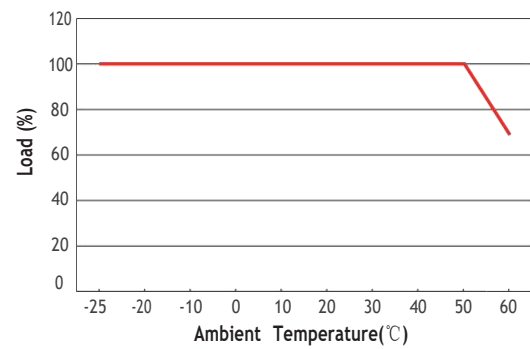
PF vs Load



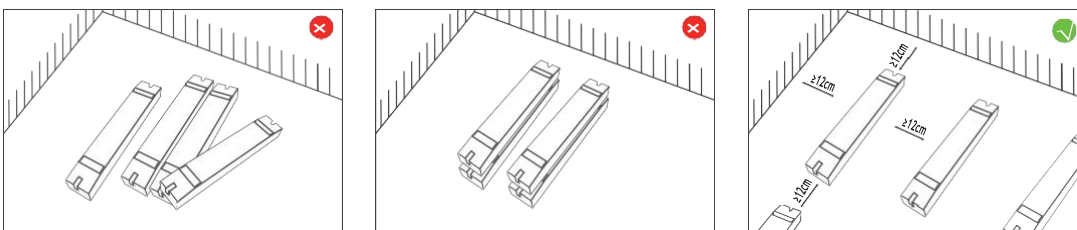
THD vs Load



Derating Curve



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}	30A (120V)	42A (277V)	Input Voltage 120V/277V
Inrush current T_{width}	305us (120V)	312us (277V)	Input Voltage 120V/277V, measured ta 50% I_{peak}

MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers	MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers
B10	8pcs	6pcs	C10	13pcs	10pcs
B13	11pcs	7pcs	C13	17pcs	13pcs
B16	13pcs	9pcs	C16	21pcs	16pcs
B20	17pcs	12pcs	C20	26pcs	20pcs
			D16	21pcs	32pcs

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.

※ 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:

1. Beyond warranty periods.
2. Any artificial damage caused by high voltage, overload, or improper operations
3. Products with severe physical damage.
4. Damage caused by natural disasters and force majeure.
5. Warranty labels and barcodes have been damaged.
6. No any contract signed by EUCHIPS.

· Repair or replacement provided is the only remedy for customers. EUCHIPS is not liable for any incidental or consequential damage unless it is within the law.
 · EUCHIPS has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.