LWP60-1W12V-T

Product Features

· Ambient Temperature: (-20 to +60) ℃
· Ripple: ≤240mV (p-p)
· Certifications: CE + UL compliant
· Surge Protection:L-N: 6KV L-G: 6KV N-G: 6KV
· Compact Size
· Waterproof Connector Supported
· Short circuit, Overload, Overcurrent,
Over-Temperature Protection (OTP)
· Suitable for Dry, Damp & Wet Locations

Application

For LED constant voltage strip light only

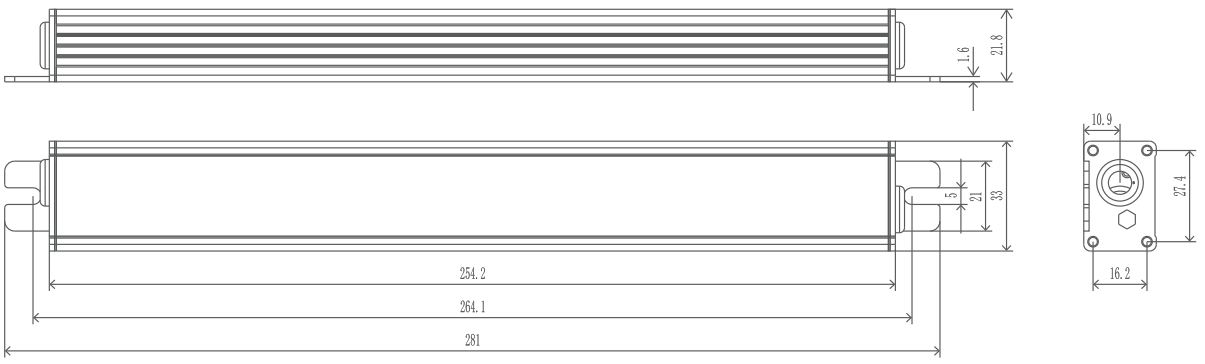

LED Strip Light


LED Tube

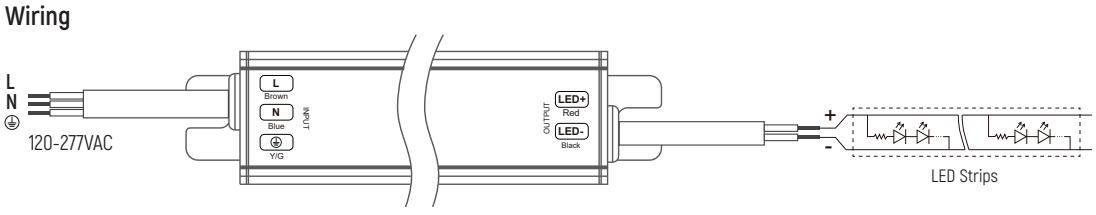
Technical Paramaters

Model	LWP60-1W12V-T	
Input	Voltage	120VAC-277VAC,108-280VDC
	Frequency Range(Hz)	50/60Hz
	Current	0.62Amax@120VAC, 0.33Amax@230VAC, 0.27Amax@277VAC, full load
	PF	≥0.90 @ 120-277VAC, ≥0.95 @ 230VAC ,full load
	Efficiency	≥85% @ 120-277VAC, ≥86% @ 230VAC ,full load
	THD	<20% @120-277VAC ,full load
	Inrush current	Cold start, 18A@120VAC/43A@277VAC(Measure twidth=250us at 50% Ipeak)
	No load power	≤0.5W
	Turn on delay Time	0.75s, at120Vac(When the light begins to shine)
Output	Channel	1
	Voitage	12VDC
	Voltage Accuracy	±3%
	Current	5A Max.
	Power	60W Max.
	Ripple Voltage	≤240mV(p-p)
	Voltage Accuracy	±3%
	Standby power	≤0.5W
	No load voltage	12.36VDC MAX
Protect	Over load	Hiccup Protection, Auto-recovery after Fault Clearance
	Short circuit	Shut down output, Auto-recovery after Fault Clearance
	Over Temperature	Turn off the output, and it will automatically resume when the temperature returns to normal
	Over Current	Hiccup Protection, Auto-recovery after Fault Clearance
Safety& EMC	Surge	L-N: 6KV (Comb Wave) L-G: 6KV (Comb Wave) N-G: 6KV (Comb Wave)
	Withstand Voltage	I/P-O/P: 3000V/1min/5mA I/P-GND: 1800V/1min/5mA O/P-GND: 500V/1min/5mA
	Safety standards	EN61347-1,EN61347-2-13,UL8750,UL1310,UL879
	EMC Emission	EN61000-3-3,EN61000-3-2,EN61547
	EMC Immunity	EN55015,FCC Part 15 Class B
Environment	Working temp	-20°C~60°C
	Storage Temp	-40°C~85°C
	Storage Humidity	20-90%RH (No condensation)
Others	RoHS	RoHS 2.0 (EU) 2015/863
	tc	80°C
	Material	Metal
	IP rating	IP67
	Lifetime	50,000h@tc:80°C
	Warranty	5years
	Switch cycle	25,000 times
	Dimension	281*33*21.8mm(L*W*H)
	Packing(weight)	Net weight: 390g±5%/PCS; 30PCS/Carton; 12.2kg±5%/Carton; Carton Size:305*342*159mm (L*W*H)
	Noise	In a quiet environment， No noise outside 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



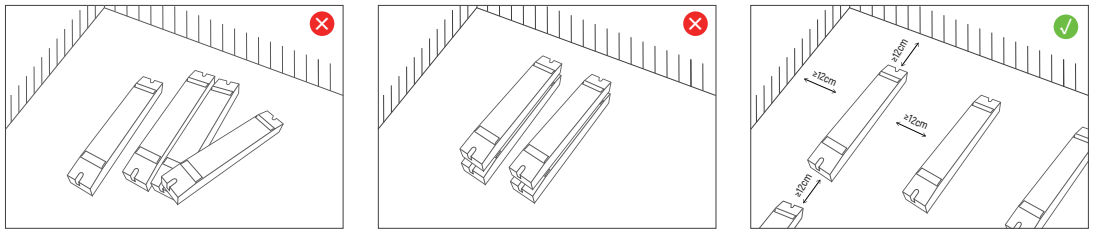
Metal case
All material to be ROHs compliant to Directive 2002/95/EC
Wires to be Stranded with UL approval
Input: Brown & Blue & Y/G: 250mm±15mm , 3×1.0mm^2
Output: Red & Black: 250mm±15mm , 2×1.0mm^2

Max. quantity of drivers per miniature circuit breaker

Specification item	Value	Condition
Inrush current I_{peak}	18A	Input Voltage 120VAC
Inrush current T_{width}	250us	Input Voltage 120VAC, measured ta 50% I_{peak}

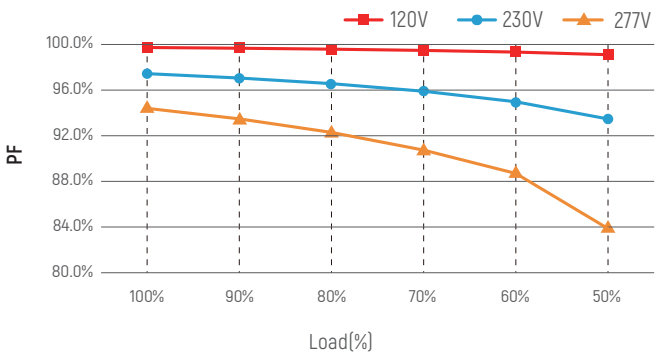
MCB	Input Voltage 120V Drivers	MCB	Input Voltage 120V Drivers
B10	16pcs	C10	16pcs
B13	20pcs	C13	20pcs
B16	25pcs	C16	25pcs
B20	32pcs	C20	32pcs
		D16	25pcs

Installation Precautions

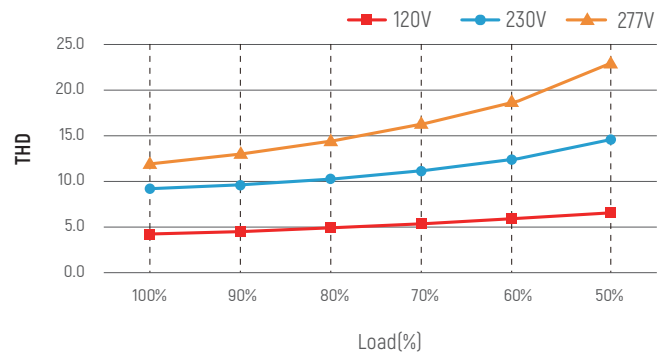


Please do not stack the products. The distance between two products should be>12cm so as not to affect heat dissipation and the lifespan of the products.

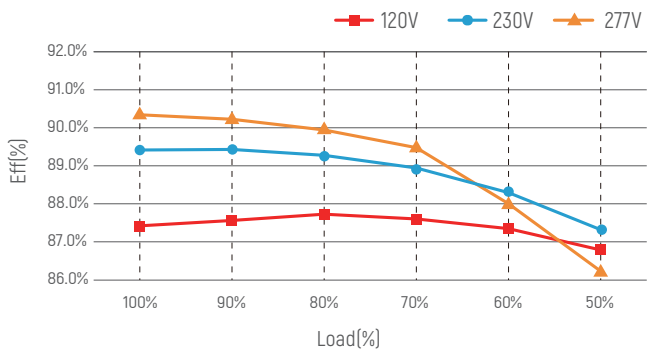
PF vs Load Curve



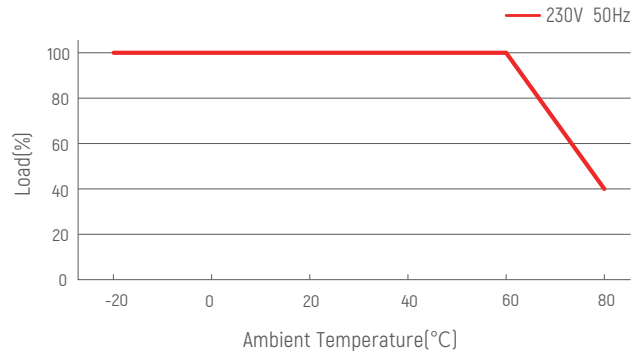
THD vs Load Curve



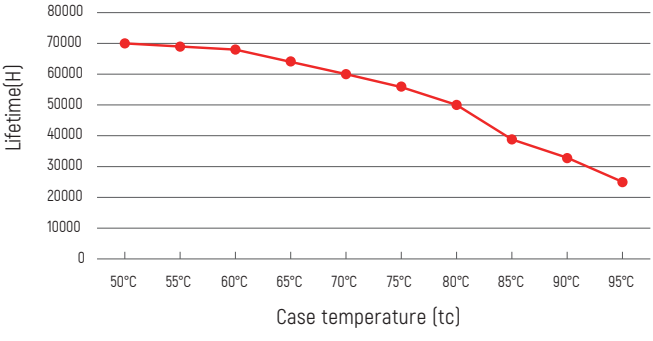
Efficiency vs Load Curve



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.

Cautions

This 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 mm ^{2}, (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	· 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 regular 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.