

WF-LD100U-24V

LED Power supply

Important: read this information before installation.

- 100-240VAC Input
- Constant voltage output, **Max.** total output power 100W
- Built-in active PFC function
- Ultra-thin design, Light weight and high efficiency
- Over-load / Over-temperature / Short circuit protection
- Suitable for indoor LED lighting application
- Warranty – 5 years
- Separate module for Zigbee 3.0



Applications

- Suitable for WoodUpp LED Striplight



Technical Parameters

Output	Output voltage	24VDC
	Output current	Max. 4.16A
	Output power	Max. 100W
	Startup time	≤0,5S
	Dimming range	1-100%
	Ripple&Noise	≤240mVp-p
Input	Input voltage	100-240VAC
	Frequency rage	50/60Hz
	Alternating current	1,5A/115VAC; 0,5A/230VAC
	Power factor	PF ≥ 0,95/115VAC, PF ≥ 0,90/230VAC (fully loaded)
	No load power	0,4W
	Inrush current	Cold start 35A
	Leakage current	≤0,5mA / 265VAC
Protection	Over temperature	Shut down the output voltage, recover from cooling
	Overload	When the load ≥ 110-130% off the output voltage, Auto recovers
	Short Circuit	Shut down the output voltage, auto recovers
Environment	Working temperature	-20° - +40°C
	T-case max	85°C
	Working humidity	20 – 95% RH, non-condensing
	Storage temperature/humidity	-20 - +60°C, 10-90% RH, non-condensing
	Vibration resistance	10-500Hz, 5G, 12min/cycle, X, Y, Z axes/72min
	IP rating	IP20
Safety & EMC	Security specifications	EN 61347-1:2015+A1; EN 61347-2-13:2014+A1; EN 62493:2015; UL8750; CSA C22.2 No. 250.13, 4th Ed.
	EMC specifications	EN IEC 55015:2019+A11; EN IEC 61547:2023; EN IEC 61000-3-2:2019+A1 EN 61000-3-3:2013+A1+A2; FCC Part 15Subpart B, Class B(sDOC) Procedure: ANSI C63.4:2014
	Certifications	TUV(CE), 3C, FCC, KC, PSE, RoHS, UL
	Energi efficiency	DOE VI, CEC VI; ERP VI
	Driver	Class II power supply, full insulated plastic case
Warnings	Installation	REMEMBER to turn off the power to the power supply before installment
		The Power supply need a min of 40 cm space for best working result
		The driver MUST NOT be exposed to moisture
Other	Net weight	186g
	Size	160*62*19,5mm (L*W*H)
	Warranty	5 years

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LED Module for LED power supply



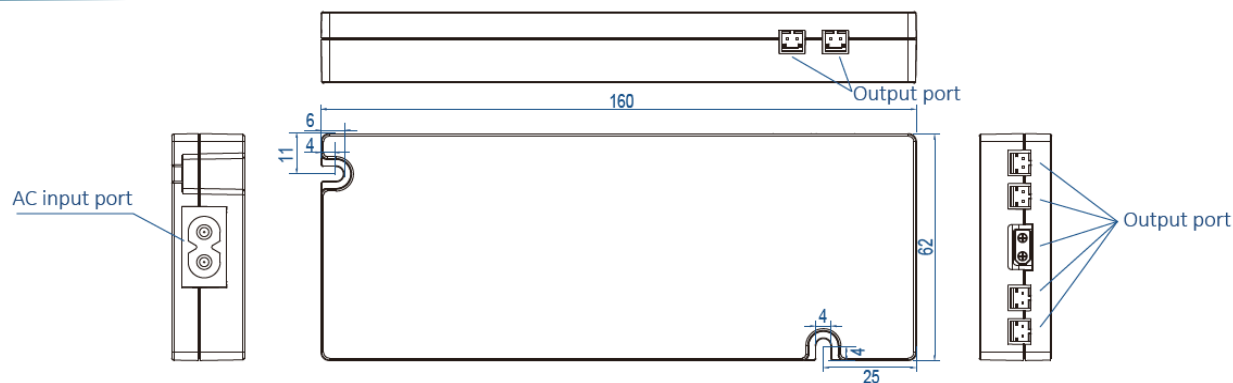
Applications

- Suitable for WoodUpp LED Striplight

Technical Parameters

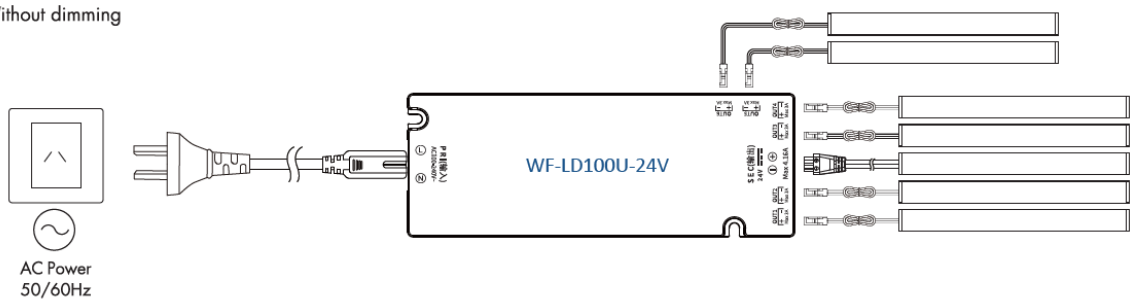
Module	Input voltage	DC24V
	Output voltage	DC24V
	Output current	Max. 3A/Port
	Output power	75W
	Output type	Constant pressure type
Dimming	Input signal	Zigbee 3.0 + RF 2.40 GHz + reset switch
	Remote control distance	10-15 meter (open and barrier free)
	Dimming range	0-100%
Other	Operation temperature	-20° - +45°C
	Product size	62x59x19,5mm (L*W*H)
	Protection mechanism	Anti-reverse connection, overheating, short circuit protection
	Warranty	5 years

Mechanical structures and installations

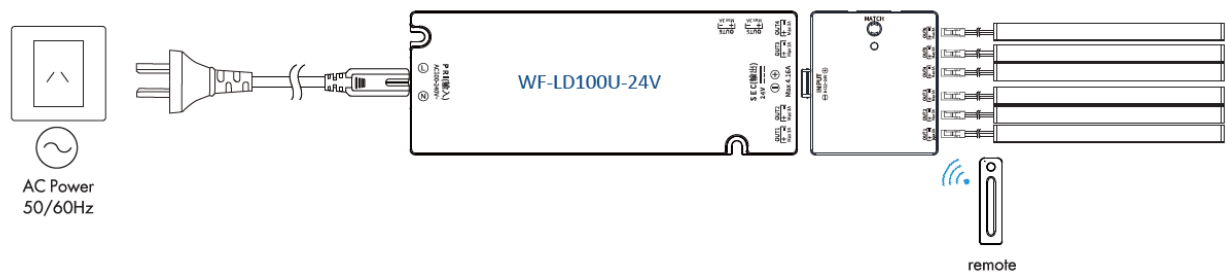


Wiring diagram

1. Without dimming

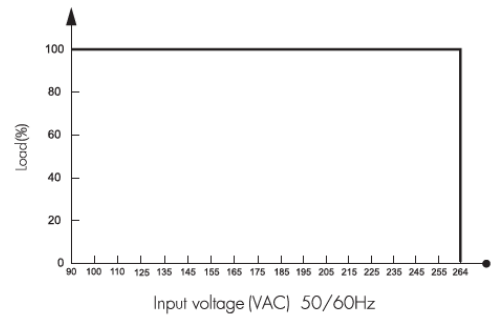
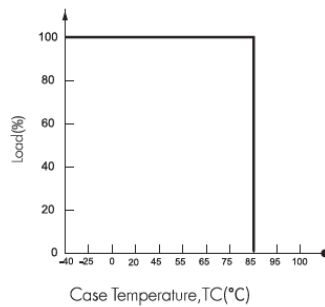
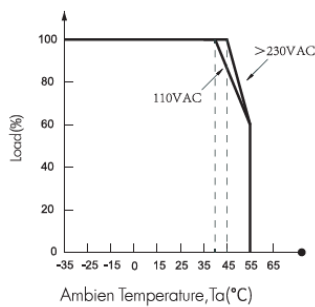


2. With dimming

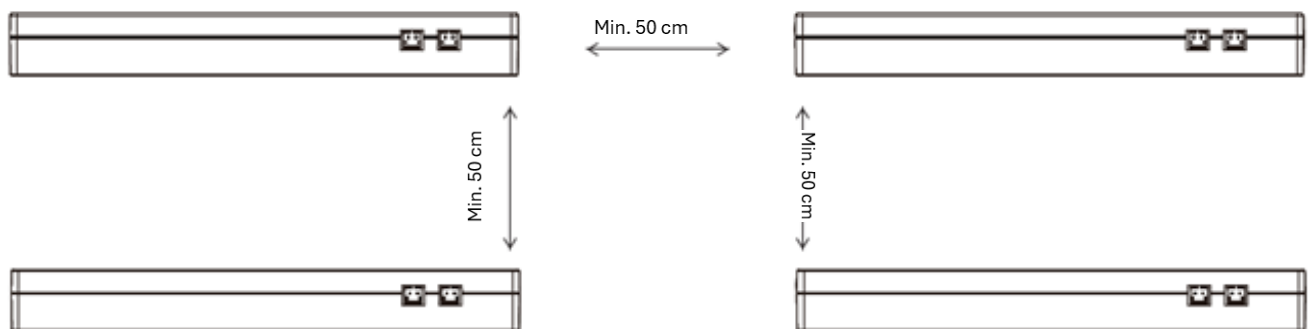


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Output Load vs Temperature



Installation precautions



Caveat:

Please do not stack the products. The distance between two products should be $\geq 40\text{CM}$, distance between the product and the surrounding area should also be $\geq 40\text{CM}$, and cannot be installed in confined spaces, so as not to affect heat dissipation and lifespan of products.

Setting up Philips Hue, Google Home or Alexa

IMPORTANT - ZigBee setup

Connectivity when using ZigBee requires that an existing ZigBee bridge/hub is installed (e.g. a Philips HUE Bridge). WoodUpp LED strip supports connectivity to market-leading smart-home solutions such as Philips HUE, Google Home, Alexa and Tuya Smart.

You should download and install your desired app from the Apple App Store or Google Play.

Connecting to your desired smart home solution is described below.

The Zigbee module for the driver enables you to connect your WoodUpp Zigbee remote control to your WoodUpp LED striplight.

Setting up Philips HUE

- 1) Open the Hue app.
- 2) Go to the Home tab and tap the three-dot icon (...).
- 3) Tap Add lights.
- 4) Only NOW do you need to turn on your WoodUpp LED Strip and ensure that the blue diode on the driver flashes.
- 5) Tap Search.
- 6) Once the new light is found, tap Start setup.
You can then name your WoodUpp LED Strip and specify its type (icon).
(you can name it "WoodUpp" as it makes it easier to use the voice control in Alexa and Google)
- 7) Move your new light source (WoodUpp) to an existing room or create a new one.

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- 8) The app acknowledges with "We succeeded! Your lights are ready to go"

See Philips HUE's own guide here:

[How to set up smart bulbs and lamps | Philips Hue UK \(philips-hue.com\)](https://philips-hue.com)

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Setting up Google Home

Your WoodUpp LED Strip can be connected to Google Home via Zigbee through your Philips Hue app.

We describe how you can connect WoodUpp LED Strip to Google Home through Philips HUE.

- 1) Open your Google Home app.
- 2) Select "Settings and press "+ Add"
- 3) Select "Services" and select "Works with Google"
- 4) Search for Philips Hue
- 5) Select Philips Hue and click "Grant permission"
- 6) You will now be directed to your Philips Hue account where you are asked to log in with your Philips Hue account details
 - a) For Philips Hue setup, select your Philips Hue Bridge
- 7) After that, the setup is finished and when Google has synchronized with your Philips Hue, you can "talk" to your WoodUpp LED Strip. (e.g. "Hey Google – turn on WoodUpp")

Setting up Alexa

Your WoodUpp LED Strip can be connected to Amazon Alexa via Zigbee through your Philips Hue app.

Select Amazon Alexa devices support direct connection of WoodUpp LED Strip via Zigbee. Contact your Amazon Alexa dealer for more information.

We describe how you can connect WoodUpp LED Strip to Alexa through Philips HUE.

- 1) Open your Amazon Alexa app.
- 2) Select "More" and then "Skills & Games"
- 3) Select Search purchase in the top right
- 4) Search for Philips Hue
- 5) Select Philips Hue and click "Enable Skill"
- 6) You will now be directed to your Philips Hue account where you are asked to log in with your Philips Hue account details
 - a) For Philips Hue setup, select your Philips Hue Bridge
- 7) Then the setup is complete and when Alexa has synchronized with your Philips Hue setup, you can "talk" to your WoodUpp LED Strip (e.g. "Alexa – turn on WoodUpp").