

























Short description of the product

The Akyga® AK-L2-025 is a 25W power supply for industrial automation systems, machine control and lighting based on LED technology, which is used in powering LED strips, LED bulbs, LED panels, RGB LED drivers and other electronic equipment powered with 12V DC and 2A. This power supply can be use both inside and outside. A set of protectors OVP, OTP, OPP, SCP, OCP provides safe and stable work of both power supply and powered device.

The product is adapted to supply voltage in the range of 110-265V, 50/60Hz. The power consumption of powering device can not exceed the power supply nominal current.

The product is compatible with the applicable national and European requirements.

What is in the box?

- AK-L2-025 power supply
- Short user manual

Symbols explanation:



There is a particular danger connected with service.



There is a risk of losing health or life (e.g. by electic shock).



Important tips and information.



The CE standard description on the product is the manufacturer's declaration that the marked product meets the requirements of the directive so-called The "New Approach" of the European Union (EU). For security and certification (CE) reasons, the device can not be rebuild or change in any way. In the reason of using the power supply for other purposes than those described, the product may be demaged. The incorrect use may also cause hazard such as short-circuits, burns, electric shocks, etc. Read the users manual carefully and keep it for later use. The product could be share to third partie only with the user manual included.



Product accordance with the EU directive 2002/96/EC. The symbol of the crossed out basket placed on the product means that the marked product can not be disposed of with other household waste. After use, the product must be return to collection point for used electical and electronic equipment or to the seller. Appropriate segregation of rubbish for subsequent processing, recovery or descrution contributes to avoiding negative effects on the environment and health, and also allows the recovery of raw materials from which the product is made.



The RoHS mark on the product is the manufacturer's declaration that the marked product meets ROHS the requirements of the EU Restriction of Hazardous Substances (2002/95/EC) directive, which aims to reduce the amount of hazardous substances penetrating into the environment from electrical and electronic waste.

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The II protection class device. It provides protection against electric shock against direct and indirect contact, and thanks to the additional isolation it is not necessary to connect the device case with the protective earth conductor.



The device is intended only for domestic use, indoors.

Safety Precautions



WARNING! Product heats up during operation. To reduce the risk of burns or overheating the power supply, do not place it in restricted ventilation area. Also, do not allow the working power supply to touch soft surface such as pillows, blankets or clothing. The power supplies meets the limits on the surface temperatures available to the user, as defined in the International Standard for Safety of Information Technology Equipment (IEC 60950).



Connecting LED strips or other device whose demanded power is greather than power of the power supply, can cause battery failure or even damage (burn) of power supply.



An electrostatic discharge occurs when two object touch each other, for example, an electric charge that occurs when user touch metal door handle after walking on a carpet. Discharging electrostatic charges from fingers or other electrostatic conductors can damage electronic components. To avoid damaging the computer, abstain from touching electrical outlets, wires and electronic circuits. The user's contact with electronic components should be kept to a minimum.



The manufacturer of the product is not responsible for damage or insults caused in effect of disobey the safety instructions and informations contained in these user manual.



- Keep the product and the packaging out of range of children and animals. The package includes a foil that child could choke while playing.
- It is forbidden to apply the mechanical load to the product strong shocks, impacts, dropping or crushing may cause its damage.
- The product operation in adverse conditions is not allowed. Adverse conditions are primarily: exposure to direct sunlight, high or very low ambient temperatures, strong vibrations, high humidity, surrounds of gases, dusts or flammable and aggressive liquids.
- If the product has been damaged, does not work properly or has been stored for a long period of time in bad or unfavorable conditions, safe operation of the device is not possible. It is essential to stop using the product and to protect it against re-use for security purposes.
- Take account of the user manual for other devices connected to the LED power supply.
- Product and power cord should not be touched with moist or wet hands under no circumstances.
- Short-circuiting the current connection is prohibited.
- It is forbidden to put objects inside the housing.
- Make sure that the power cord is not crushed, bent, twisted, rubbed against sharp edges or mechanically loaded in any other way. Avoid thermal load of the cable in particular keep away from heat sources (such as stoves, radiators, fireplaces).
- Power cords should be laid in such a way as to eliminate the risk of stumbling or hooking over.
- Connection of power supply to electricity is made by connecting it to the AC phase conductor.
- Before connecting the power supply to the phase conductor (cable is not included), make sure
 that the voltage specified on the power supply matches voltage supplied to the electrical
 connection.
- Before connecting the power supply / LED stips (or other devices) or conservation of the power supply make sure that the power cords are not live.

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- It is necessary to insulate the connected wires well.
- In case of any doubts regarding operation, safety or connection of the product, please contact the manufacturer or a qualified specialist for this purpose.



All maintenance, adjustment and repair work on the product may only be carried out by a qualified person in a specialist facility.

Removing the most common problems

Problem	Cause	Solution
The LED strip or other device connected via power supply does not work	No mains voltage	 Check the correct connection of the power supply to the energy grid Check the mains fuses
	The power adapter is overloaded	Disconnect the power adapter from energy grid, check the correctness of the current parameters
	Incorrect connection of the device	 Make sure that the power supply is correctly connected to the power grid Check that the connected cords are in good contact
	There is a suspicion of a product defect	Stop using and contact the seller
The LED strip lights poorly	The power adapter does not correspond to the current parameters	Check corresponds of the power of the LED strip to the power supply

How to choose the LED power supply correctly?

In order to properly match the power supply with the LED strip, multiply the length of the strip expressed in meters by the power of the tape, and then select the power supply with a margin of min. 10% to guarantee long and trouble-free system operation, unless the manufacurer of the LED strip recommends otherwise.

Connecting the LED Strip to the Power Supply:

- 1. Prepare the right length of the LED strip.
- 2. Solder output cables from LED power supply with LED strip according to the polarity.
- WARNING! For larger LED lighting installations, it is recommended to divide the strip into smaller sections.
- The LED strip in RGB version needs RGB controller.

Connecting the Power Supply to energy grid:

- 1. Prepare the 3-wire power cable. WARNING! Make sure that the cables are not live.
- 2. Remove the insulation from the ends of the cables (about 0.5 cm).
- 3. Solder or twist the input wires of the power supply with the power cable according to the colors.
- 4. Insulate the connected wires so that they do not touch and do not get wet.
- 5. Turn on the power.

Wires collors:

- 1. Phase conductor connector (L brown).
- 2. Neutral conductor connector (N blue).
- 3. Safety conductor connector (green yellow).
- 4. Output connector from power supply (COM blue).
- 5. Power supply input connector (+V brown).

Cleaning the power supply:



Disconect the power supply from the electrical socket and connected devices before cleaning.



- Use soft and antistatic cloth for cleaning the power supply.
- Do not use abrasive or chemical cleaners.

Technical specfication

Product code:	AK-L2-025
Supply voltage:	110-265V , 50/60Hz
Output voltage and amperage:	12V / 2A
Maximum power:	25W
Efficiency:	80%
Temperature:	5-50°C
Storage temperature:	-40/+80°C
OVP (over voltage protection):	Yes
OCP (over current protection):	Yes
OPP (overpower protection):	Yes
OTP (over temperaturre protection):	Yes
SCP (short circuit protection):	Yes
IP Rating:	IP20
Compilance with standards:	CE, FCC, RoHS
REACH compatibility:	YES
EAN code:	5901720135025
	Supply voltage: Output voltage and amperage: Maximum power: Efficiency: Temperature: Storage temperature: OVP (over voltage protection): OCP (over current protection): OPP (overpower protection): OTP (over temperature protection): SCP (short circuit protection): IP Rating: Compilance with standards: REACH compatibility:

-ED Power Supply

Product manufacturer:

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