

24V output switching power supply

User Manual

KTS-24P



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Safety instructions

- Before installation, please read user manual carefully and observe relevant standards, directives, regulations and instructions.
- Electrical equipment must be installed and programmed by qualified technicians only.
- This device is manufactured according to the relevant technical specifications and have CE.
- For more information of this product, please contact the technical engineer of manufacturer.
- Users are not permitted to alter and maintain the product without the authorization of manufacturer.
- Failure to observe the instructions may cause damage to the device and result in fire or other hazards.

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Customer Notice

1. Frequent on-off of the input power supply or abnormal input will affect its service life. Using it under abnormal conditions or in an abnormal environment will also shorten its service life. Extreme temperature and humidity (absolute dryness), excessive dust, and acid-base pollution in the environment will have a negative impact on the service life of the power supply.
2. Tear off the outer packaging plastic sealing bag before installing the machine.
3. The installation screws should not be too long to prevent them from pressing against the circuit board or components, so as to avoid potential hazards.
4. When the power grid environment in which the power supply is used is poor, please consider taking measures to enhance the stability and reliability of the power supply during operation.
5. When the power supply voltage fluctuates greatly and there are frequent undervoltage and overvoltage phenomena, please consider installing a voltage stabilizer with sufficient power or an input overvoltage/undervoltage protector before supplying power to the power supply equipment.
6. When there are large electrical equipment in use on the power grid, please consider installing a matching AC filter before supplying power to the power supply equipment.
7. The power supply can be used at full load within the allowable environmental humidity range. When the environmental humidity exceeds the upper limit, the output power should be reduced according to the power output curve. For example, for a power supply with a nominal temperature range of -10°C to 45°C, when the environmental temperature is 70°C, the output power should not be greater than 50% of the rated power. When the environmental temperature is lower than -10°C, the power supply may not start or may not output normally.

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Warranty and Other Instructions

1. Please do not disassemble or repair the power supply by yourself to avoid potential hazards!
2. Please keep the purchase invoice or receipt of the power supply for verification during the warranty period.
3. If the power supply malfunctions within three months from the date of sale, it will be replaced free of charge, and it is under warranty for one year. If the usage environment exceeds the specified range or there are factors of man-made damage, free warranty service cannot be provided.
4. If you disassemble, repair or replace the power supply by yourself, you will not be eligible for free replacement and warranty services.

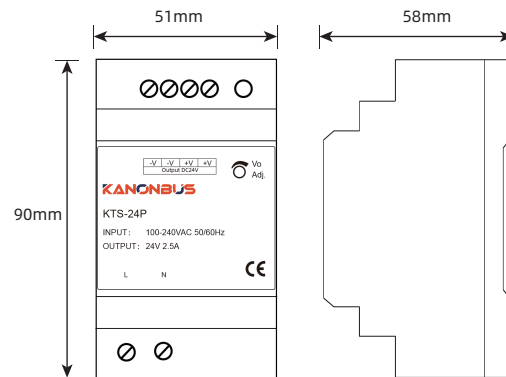
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Product parameters

Parameters	Types	KTS-24P
Output		
DC voltage		24V
Rated current		2.5A
Current range		0-2.5A
Rated power		60W
Voltage adjustment range		21-30V
Voltage accuracy		±2.0%
Input		
Voltage range		100~240VAC
Frequency range		50/60Hz
Typical Efficiency		82%
Environment		
Operating temperature		-10°C~+60°C
Operating humidity		20 - 90% RH, no condensation
Storage temperature、humidity		-10~+75°C 10~95%RH
Temperature coefficient		±0.03%/°C (0~50°C)
Other		
Dimension		51*90*58mm

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Product dimensions



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Operating instructions

1. The markings of the "live wire" and "neutral wire" interfaces for the AC input of the power supply are "L" and "N" respectively.
 2. The markings of the "positive pole" and "negative pole" interfaces for the DC output are "+V" and "-V" respectively.
2. Before powering on the switching power supply:
- ① Please check whether the input and output wires are correctly connected (the live wire, neutral wire, and ground wire of the AC power, and the positive and negative poles of the DC power).
 - ② Check whether the cross-sectional area of the transmission wire is sufficient (the voltage drop of the AC wire should not exceed 5%, and the voltage drop of the DC wire should not exceed 0.5%).
 - ③ Check whether the installation screws make good contact with the components of the switching power supply (board). Measure whether the insulation resistance and withstand voltage between the outside and the input and output meet the requirements to avoid electric shock accidents. To ensure safe use and reduce interference, please ensure that the ground wire is "well and reliably grounded (the cross-sectional area of the grounding copper wire should be greater than 0.75mm²)."

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