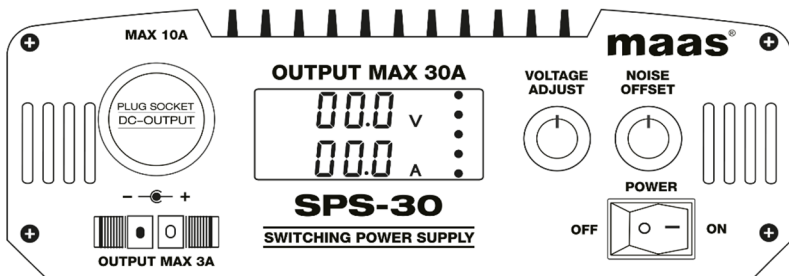




SWITCHED-MODE POWER SUPPLY *MAAS* SPS-30

OPERATING INSTRUCTIONS



Thank you for purchasing the SPS-30 regulated switching power supply from MAAS. These operating instructions contain important safety and operating instructions. Please read these instructions carefully before using the product. Keep the instructions for future reference.

Introduction

The SPS-30 from MAAS is a highly efficient, compact, lightweight high-performance switching power supply. It was specially developed for use in communication technology to minimise switching noise. Even if noise occurs, it can be eliminated with the noise offset function. Practical functions such as output voltage fixing, front connections and a clearly visible, backlit meter are also standard with this power supply unit.

Caution

1. even if the housing of the appliance is negatively earthed, use the correct terminals to connect the cables.
2. If you connect the appliance to a wall socket, it must be switched off.
3. place the appliance in a dry and well-ventilated area
.
4. never touch the appliance when it is in operation. Even if the appliance is designed for high efficiency, it will still get hot.
5. When the appliance reaches a certain temperature, the overheating protection switches on
.
6. do not use the appliance for devices that require a high power supply when starting, such as motorised devices. Never use the device to charge a car battery
.
7. before replacing a fuse, make sure that the appliance is switched off. Ensure that you use the specified fuse type.
8. do not disassemble the appliance, do not modify it and do not touch the inside unnecessarily; this could damage the appliance and will invalidate the warranty. The appliance has overcurrent and short-circuit protection systems. If the overcurrent protection is activated, switch off the appliance and eliminate the cause of the fault.

SPECIFICATIONS

Input voltage: 230VAC

Output voltage: 9 -15 VDC variable / fixed **Output voltage regulation:** less than 3%

Protection: short circuit, overcurrent protection over 30A overheating protection **Output current:** 30A (max), 25A (continuous)

Residual ripple: less than 80mVp-p at nominal load

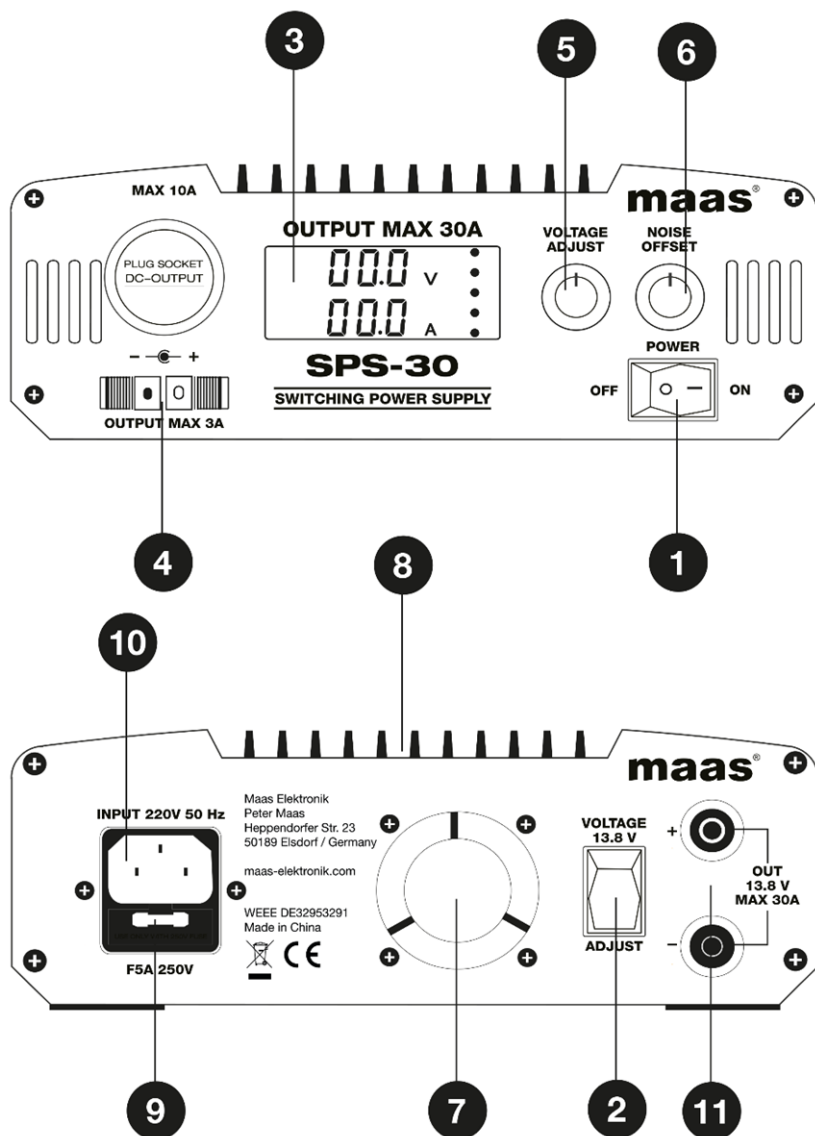
Fuse: 5A

Meter: digital voltage/current meter, backlit

Dimensions: 190(M) X 69(H) X 181(D) mm

Weight: 2.3kg

FUNCTIONS



- 1. mains switch:** Switches the device on and off.
- 2. voltage fixing switch:** The output voltage can be fixed at 13.8 V or adjusted by 6 V.
- 3. meter:** Displays the output voltage and the output current.
- 4. front output terminal:** max. 3A. Red positive, black negative.
- 5. voltage setting:** Sets the voltage between 9.0 and 15.0 volts. Turn clockwise to increase the voltage and anti-clockwise to decrease it.
- 6. noise reduction control:** This function was specially developed for use in communication. (The function may vary depending on the frequency and mode).
- 7. fan:** The fan switches on (approx. 40°C) and off automatically.
- 8. heat sink:** Do not touch the surface when the appliance is in operation. Allow the appliance to cool down completely before touching it.
- 9. fuse:** 5A
- 10. appliance socket:** 230VAC
- 11. output terminal:** connection terminals, max. 30A. Red positive, black negative.

Safety instructions

To ensure safe operation of MAAS products, please read this section before using this product.

The manufacturer declines any responsibility for economic damage caused by the loss of communication possibilities due to external factors such as malfunctions, errors, failures and/or power failures.

Warning

! This appliance may only be connected to an earthed socket.

230VAC for MAAS SPS-30 . Any other use poses a risk of electric shock and fire.

! Wash skin and/or clothing immediately with water if liquid leaks from the inside of the appliance and comes into contact with it. It can irritate the skin and discolour clothing. If liquid gets into the eyes, wash them out immediately and seek medical attention. Injuries to the eye may occur.

! Never touch the housing of the appliance during use. The surface of the appliance can become very hot, especially the heat sink. This can burn the skin.

! Make sure that the cables are connected to the correct terminals.
(plus to plus and minus to minus)

! Do not use two or more appliances in series or in parallel, as this may cause damage to the appliance, electric shocks and fires.

! The output terminal must be screwed tight when in use and the connections must be checked regularly.

! This power supply unit is intended for radio applications. Please do not use it for any other purpose.

Danger

! The appliance must not be dismantled, modified or repaired unless this is specified in the operating instructions. This may only be done by an authorised technician. Never modify the cable to lengthen or shorten it. This may cause a fire or electric shock and will invalidate the warranty.

! Use in damp rooms is prohibited.

! Always hold the plug when plugging and unplugging the appliance. Never pull the appliance out of the socket by the cable. This can cause a fire, electric shock and damage to the appliance.

! Do not plug or unplug the appliance with wet hands. This can easily lead to an electric shock. Pull the mains plug out of the socket.

! Do not use the appliance in places where flammable gases are present, as this can lead to fires and explosions.

! Disconnect the cable when replacing the fuse. Only use the specified fuse. Using the wrong fuse can cause heat and fire. Do not place any objects containing liquids on the appliance. If liquid gets inside the appliance, this can lead to fires, electric shocks and damage to the appliance. In such a case, unplug the appliance immediately. Do not use the appliance in a damp environment. If dew condenses on the appliance, dry it completely before use.

! Disconnect the appliance from the power supply during maintenance. Failure to do so may result in an electric shock and damage to the appliance.

! Unplug the appliance immediately if you notice anything unusual, e.g. smoke or strange odours coming from the appliance. Contact our authorised service centres immediately.

Attention

! Only use the appliance at room temperature. (10 to 35 degrees Celsius or 50 to 95 degrees Fahrenheit) Store the device in a dry and well-ventilated place. Do not use the device in direct sunlight, in places where it may come into contact with water or in a poorly

ventilated area. This can lead to heat, fire and damage to the appliance.

! Place the appliance on a secure and level surface. If it is placed on an unstable surface, the appliance may fall and cause damage and injury. Although the fixed output voltage has been set to 13.8 V, it is possible that the set value may deviate due to transport vibrations or temperature fluctuations.

! Do not use the device for devices that require a high current consumption when starting, such as motorised devices. Do not use the device to charge a car battery. This can damage the device.

! Do not cover the ventilation slots on the housing or the fan. Never insert metallic or flammable objects into the interior of the appliance, as this can lead to damage, electric shocks and fires. If foreign objects get into the appliance, switch it off, disconnect the mains plug and contact an authorised customer service centre. Never leave the appliance within the reach of children. They could injure themselves or burn their skin.

! Make sure that the devices to be connected comply with the specifications of this device, otherwise the device may be damaged.

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