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PSIDE PARKSIDE® PISG 120 D5

PARKSIDE® Inverter Welding Machine PISG 120 D5

User Manual

1. Product Overview

The PARKSIDE® PISG 120 D5 Inverter Welding Machine is designed for homogeneous connection of steel, stainless steel, and casting materials. It features innovative inverter technology for superior welding joints compared to conventional devices, offering a stable and electronically controlled welding arc with higher tolerance during changes. Its lightweight design makes it ideal for mobile use.



Image 1.1: The PARKSIDE® PISG 120 D5 Inverter Welding Machine, showcasing its compact design and green housing.

Key features include a thermovact overload protection with indicator light, a powder-coated metal housing with a length-adjustable carrying strap, and an integrated fan. It is suitable for all standard stainless steel, cast iron, and base rod electrodes.

2. Safety Instructions

WARNING: Always read and understand all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

- **Electromagnetic Compatibility (EMC):** This Class A welding device is not intended for use in living rooms where the power supply is done via a public low voltage supply system. It can be difficult to ensure electromagnetic compatibility in these areas, both due to wired and radiated interferences.
- **Personal Protective Equipment (PPE):** Always wear appropriate personal protective equipment, including a welding screen, welding gloves, protective clothing, and safety footwear, to protect against arc flash, sparks, and

hot metal.

- **Ventilation:** Ensure adequate ventilation in the work area to disperse welding fumes and gases. Welding fumes can be hazardous to health.
- **Fire Hazards:** Keep flammable materials away from the welding area. Welding sparks and hot slag can cause fires. Have a fire extinguisher readily available.
- **Electrical Safety:** Ensure the power supply is correctly grounded and rated for the welding machine's requirements. Inspect cables for damage before each use. Do not operate in wet conditions.
- **Overload Protection:** The device is equipped with thermovact overload protection. If the indicator light illuminates, allow the machine to cool down before resuming operation.

3. Package Contents

Verify that all items listed below are present and undamaged upon unpacking your PARKSIDE® PISG 120 D5 Inverter Welding Machine:

- 1 x PARKSIDE® PISG 120 D5 Inverter Welding Machine
- 1 x Welding Screen
- 1 x Combi Wire Brush with Hammer
- 5 x Welding Electrodes (2 x 1.6 mm; 2 x 2.0 mm; 1 x 2.5 mm)
- 1 x Carrying Strap
- 1 x 2m Welding Cable with Electrode Holder
- 1 x 2m Ground Cable with Powerful Clip

If any components are missing or damaged, please contact customer support immediately.

4. Setup

1. **Unpacking:** Carefully remove all components from the packaging. Retain packaging for future storage or transport.
2. **Placement:** Place the welding machine on a stable, level, and non-flammable surface in a well-ventilated area. Ensure sufficient clearance around the machine for airflow.
3. **Attach Carrying Strap:** If desired, attach the length-adjustable carrying strap to the designated points on the powder-coated metal housing.
4. **Connect Welding Cable:** Connect the 2m welding cable with the electrode holder to the positive (+) terminal of the welding machine. Ensure a secure connection.
5. **Connect Ground Cable:** Connect the 2m ground cable with the powerful clip to the negative (-) terminal of the welding machine. Attach the ground clamp securely to the workpiece or welding table, ensuring good electrical contact.
6. **Insert Electrode:** Insert the appropriate electrode (1.6-2.5 mm diameter) into the electrode holder. Ensure it is held firmly.
7. **Power Connection:** Connect the 4m power cable to a suitable 230V AC power outlet. Ensure the outlet is properly grounded and can supply 3300 watts.

5. Operating Instructions

5.1. Before Welding

- Ensure all safety precautions are followed (refer to Section 2).
- Prepare the workpiece: Clean the welding area of rust, paint, oil, or other contaminants.
- Select the correct electrode type and size for the material thickness (1.5-3mm weldable material thickness).
- Adjust the welding current: The welding current is continuously adjustable from 10A to 120A. Refer to electrode manufacturer's recommendations for optimal current settings.

5.2. Welding Process

1. Turn on the welding machine. The integrated fan will start.
2. Put on your welding screen and other PPE.
3. Strike the arc: Briefly touch the electrode to the workpiece and quickly lift it slightly to establish an arc. Maintain a consistent arc length.
4. Move the electrode steadily along the joint, maintaining the arc and feeding the electrode as it melts.
5. If the overload protection indicator light illuminates, stop welding and allow the machine to cool down.
6. After welding, turn off the machine. Allow the workpiece to cool before handling.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your welding machine.

- **Cleaning:** Regularly clean the exterior of the machine with a dry cloth. Do not use solvents or abrasive cleaners. Ensure ventilation openings are free from dust and debris.
- **Cable Inspection:** Periodically inspect the welding cables, electrode holder, and ground clamp for any signs of damage, fraying, or loose connections. Replace damaged components immediately.
- **Storage:** When not in use, store the welding machine in a dry, dust-free environment, away from direct sunlight and extreme temperatures.
- **Internal Cleaning:** For internal cleaning (e.g., removing dust from the fan and internal components), it is recommended to have this performed by qualified service personnel.

7. Troubleshooting

Problem	Possible Cause	Solution
Machine does not turn on.	No power supply; damaged power cable.	Check power outlet and cable connections. Ensure power switch is ON.
No welding arc.	Poor ground connection; incorrect electrode; insufficient current; faulty cable.	Ensure ground clamp has good contact. Check electrode type and size. Increase welding current. Inspect cables for damage.
Overload indicator light is on.	Machine is overheated due to prolonged use or insufficient ventilation.	Stop welding and allow the machine to cool down. Ensure ventilation openings are clear.
Poor weld quality.	Incorrect current setting; improper arc length; dirty workpiece; wrong electrode.	Adjust current. Maintain consistent arc length. Clean workpiece thoroughly. Use appropriate electrode.

8. Specifications

Parameter	Value
Model	PARKSIDE® PISG 120 D5
Input Power	3300 watts (at 230 V)
Idle Voltage	66 V
Welding Current Range	10A/18.4V - 120A/22.8V (Continuously Adjustable)
EMV Class	A
Electrode Thickness	1.6 - 2.5 mm
Weldable Material Thickness	1.5 - 3 mm
Power Cable Length	4 m
Welding Cable Length (with electrode holder)	6.2 m
Ground Cable Length (with clamp)	2 m
Dimensions (Welding device)	Approx. 24 x 9.7 x 17.8 cm
Weight (Welding device)	Approx. 2.25 kg
Material	Sheet steel, plastic, stainless steel

9. Warranty and Support

For warranty information and customer support, please refer to the documentation provided with your purchase or visit the official PSIDE website. Keep your proof of purchase for warranty claims.

Manufacturer: PARKSIDE®
Item Model Number: PARKSIDE® PISG 120 D5
ASIN: B0CNSBQKVW
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