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Klutch 90600000000

Klutch 11kW Engine-Driven Inverter Stick Welder/Generator

Model: 90600000000

1. Product Overview

The Klutch 11kW Engine-Driven Inverter Stick Welder/Generator is a high-performance, versatile machine designed for both welding and auxiliary power generation. It features advanced inverter technology for smooth welding performance and a large LCD display for easy operation. This unit is capable of delivering 260 Max. Amp DC output for welding and up to 11kW of auxiliary power.

Key features include:

- **Exceptional Stick Welding Capabilities:** Ideal for various stick welding projects.
- **Versatile Material Handling:** Welds steel, stainless steel, aluminum, cast iron, and hard surfacing up to 5/8 inch thick.
- **Dual-Voltage Power Output:** Provides 120V/240V auxiliary power with multiple receptacles.
- **Dependable Engine:** Powered by a 764cc, 14 HP air-cooled engine with electric start.
- **Extended Run Time:** 8-gallon fuel tank offers up to 7 hours of operation.
- **Lightweight Inverter Design:** Up to 50% lighter than comparable models, ensuring consistent welds.
- **User-Friendly LCD Screen:** Water-resistant display for quick and efficient operation.



Image 1.1: Front view of the Klutch 11kW Engine-Driven Inverter Stick Welder/Generator, showcasing its robust design and control panel.

2. Safety Information

Always prioritize safety when operating this equipment. Failure to follow safety guidelines can result in serious injury or death.

- **Read the Manual:** Before operation, thoroughly read and understand all instructions and safety warnings in this manual.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including welding helmet, gloves, protective clothing, and safety glasses.
- **Ventilation:** Operate in a well-ventilated area to avoid inhalation of welding fumes and engine exhaust.
- **Fire Hazards:** Keep flammable materials away from the work area. Ensure a fire extinguisher is readily available.
- **Electrical Safety:** Ensure all electrical connections are secure and properly grounded. Do not operate in wet conditions.
- **Fuel Safety:** Handle gasoline with extreme care. Refuel in a well-ventilated area with the engine off and cool.
- **Moving Parts:** Keep hands, feet, and clothing away from moving engine parts.
- **Children and Bystanders:** Keep children and unauthorized persons away from the operating area.

3. Components and Controls

Familiarize yourself with the various components and controls of your welder/generator for safe and efficient operation.

3.1. Control Panel

The main control panel features an LCD screen and various controls for welding and power generation.

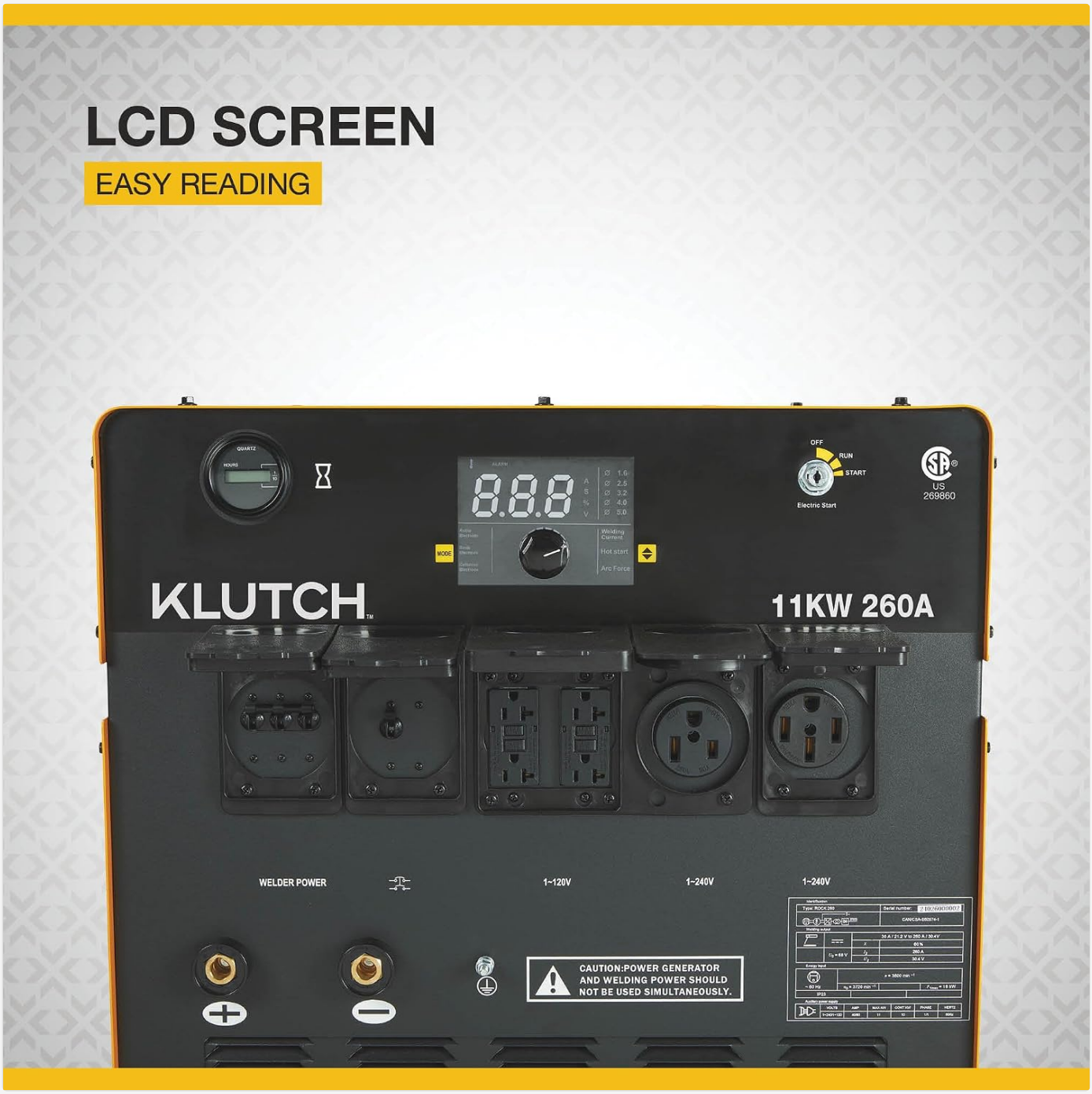


Image 3.1: Close-up of the LCD screen and control panel, showing the various receptacles and adjustment knobs.

- **LCD Display:** Shows welding parameters, output voltage, and other operational data.
- **Amperage Adjustment:** Knob for precise control of welding current (20-260A).
- **Electrode Type Selector:** Allows selection for different electrode types.
- **Hot Start/Arc Force Adjustment:** Controls for optimizing arc characteristics.
- **120V GFCI Receptacles:** Two sets for standard household power.
- **240V 3-pin Receptacle (NEMA 6-50R):**For higher voltage applications.
- **240V 4-pin Receptacle (NEMA 14-50R):**For higher voltage applications.

- **Circuit Breakers:** Protects the machine from overloading.
- **Electric Start/Recoil Backup:** For starting the engine.

3.2. Engine Compartment

The engine compartment houses the 764cc, 14 HP air-cooled engine.



Image 3.2: View of the engine compartment with the access door open, showing the air-cooled engine.

4. Setup

Proper setup is crucial for safe and effective operation.

4.1. Unpacking and Placement

- Carefully remove the unit from its packaging.
- Place the welder/generator on a firm, level surface in a well-ventilated area, away from flammable materials.
- Ensure adequate clearance around the unit for air circulation and service access.

4.2. Fuel and Oil

- Fill the 8-gallon fuel tank with unleaded gasoline. Do not overfill.
- Check the engine oil level and add recommended engine oil if necessary. Refer to the engine manual for specific oil type and capacity.

4.3. Connecting Welding Cables

The unit includes a 20ft. grounding cable with clamp and a 20ft. welding cable with electrode holder.



Image 4.1: The 20ft welding cable with electrode holder, ready for connection.



Image 4.2: The Klutch welder/generator shown with the included welding and grounding cables.

1. Connect the grounding cable to the negative (-) terminal on the welder. Secure the clamp to the workpiece or a clean, bare metal ground point.
2. Connect the welding cable with the electrode holder to the positive (+) terminal on the welder.
3. Ensure all connections are tight and secure.

5. Operation

This section details how to operate the unit for both welding and power generation.

5.1. Starting the Engine

1. Ensure the fuel valve is open.
2. If cold, apply choke as needed.
3. Turn the ignition key to the 'START' position or use the recoil starter.
4. Once the engine starts, release the key and gradually disengage the choke.

5.2. Welding Operation

The unit offers a 20-260A amperage range and adjustable hot start/arc force.



Image 5.1: The Klutch welder/generator providing dual-voltage power on a job site.

1. Select the appropriate electrode type on the control panel.
2. Adjust the amperage using the control knob according to the material thickness and electrode size.
3. Adjust Hot Start and Arc Force as required for optimal arc stability and penetration.
4. Begin welding, maintaining proper technique and safety precautions.

5.3. Generator Operation

The auxiliary power supply has a rated output of 10kW and a maximum output of 11kW.

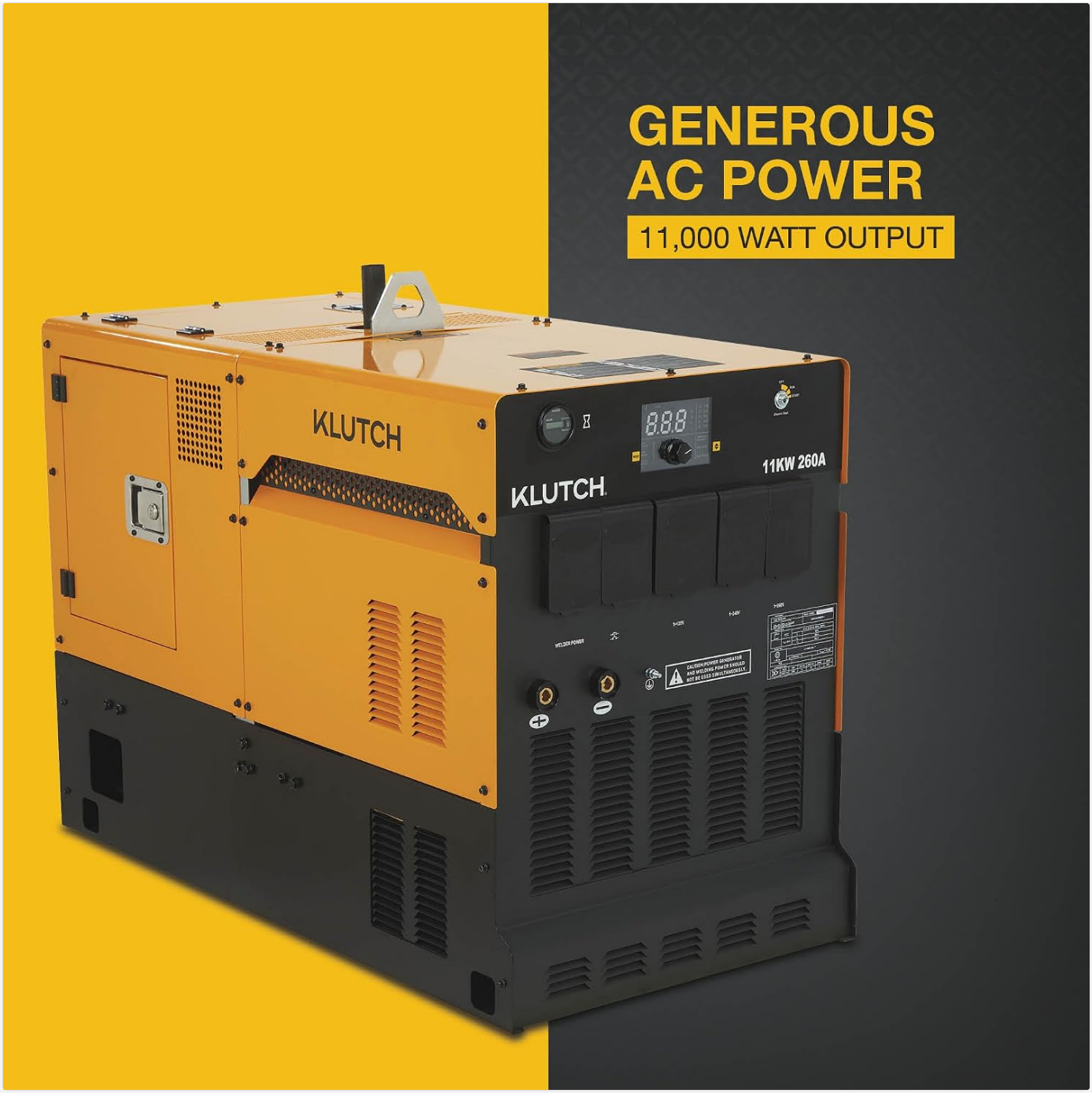


Image 5.2: The Klutch welder/generator highlighting its 11,000 watt AC power output capability.

- Ensure the engine is running stably.
- Plug your 120V or 240V devices into the appropriate receptacles.
- Do not exceed the maximum power output of 11kW. The circuit breaker will trip if overloaded.
- The 8-gallon fuel tank provides up to 6 hours of run time at rated load.



Image 5.3: The Klutch welder/generator positioned in a truck bed, illustrating its portability and long operation capability.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Klutch welder/generator. Always turn off the engine and allow it to cool before performing any maintenance.

- **Engine Oil:** Check oil level before each use. Change oil according to the engine manufacturer's recommendations (typically after the first 20 hours, then every 50-100 hours).
- **Air Filter:** Inspect and clean the air filter regularly, especially in dusty conditions. Replace if damaged.
- **Spark Plug:** Inspect and clean the spark plug periodically. Replace if worn or fouled.
- **Fuel System:** Use fresh, clean fuel. Drain the fuel tank and carburetor if storing the unit for an extended period.
- **Cooling System:** Ensure cooling fins are clean and free of debris to prevent overheating.
- **General Cleaning:** Keep the exterior of the unit clean. Avoid spraying water directly onto electrical components.
- **Service Access:** Multiple doors allow for convenient service access.

7. Troubleshooting

This section provides solutions for common issues you might encounter.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Engine does not start	No fuel; Low oil; Spark plug issue; Choke setting	Add fuel; Check/add oil; Inspect/replace spark plug; Adjust choke
No welding output	Loose connections; Incorrect settings; Overload	Check cable connections; Verify amperage/electrode settings; Reset circuit breaker
No auxiliary power output	Circuit breaker tripped; Overload; Faulty receptacle	Reset circuit breaker; Reduce load; Inspect receptacles for damage
Poor weld quality	Incorrect amperage; Wrong electrode; Improper technique	Adjust amperage; Use correct electrode; Review welding technique
Engine runs rough	Stale fuel; Clogged air filter; Dirty spark plug	Drain/refill with fresh fuel; Clean/replace air filter; Clean/replace spark plug

For issues not listed here, or if solutions do not resolve the problem, contact Klutch customer support.

8. Specifications

Specification	Value
Model Name	Engine-Driven Inverter Stick Welder/Generator with LCD Screen
Model Number	90600000000
Brand	Klutch
Engine Type	4 Stroke
Engine Displacement	764 Cubic Centimeters
Engine Power Maximum	11 Kilowatts
Fuel Type	Gasoline
Tank Volume	8 Gallons
Runtime	6 hours (at rated load)
Power Source	DC (for welding)
Welding Amperage Range	20 - 260 Amps
Duty Cycle	60% @ 260A
Auxiliary Power Output (Rated)	10 Kilowatts
Auxiliary Power Output (Max)	11 Kilowatts

Specification	Value
Auxiliary Voltage	120V / 240V
Total Power Outlets	5 (2x 120V GFCI, 1x 240V 3-pin, 1x 240V 4-pin)
Item Weight	550 Pounds
Included Components	Welder generator, 20ft. welding cable with electrode holder, 20ft. grounding cable with clamp
Certifications	CSA, EPA approved

9. Warranty and Support

For warranty information and customer support, please refer to the documentation included with your purchase or visit the official Klutch website. Keep your purchase receipt for warranty claims.

For technical assistance or parts inquiries, please contact Klutch customer service. Contact details can typically be found on the product packaging or the manufacturer's website.

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