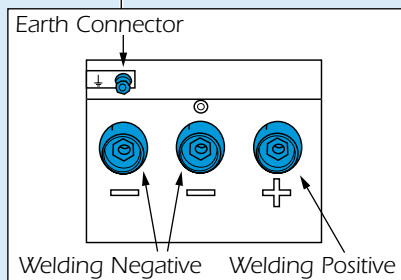
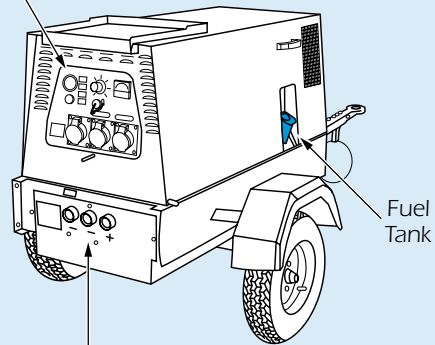
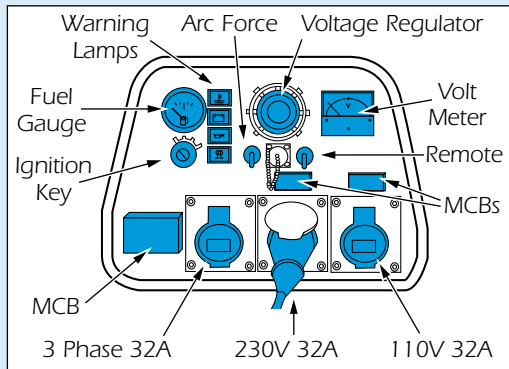


## 300Amp Super Silenced Welder Generator



Should you need to **link two units together** to increase the welding amperage, **follow the instruction in Operating & Safety Guide No 709.**

Remember to **set one unit to maximum amperage** and use **the second unit for final adjustment**, this 2nd unit should also be the one with the remote fitted if one is being used.

**Where a remote is being used** plug it into the remote socket and **move the remote switch to ON.** If remote is not being used set the switch to OFF.

You can now **start the engine** as previously described in 'GETTING STARTED'.

**Try the weld on a test piece of scrap** if you are not sure of the setting. Simply increase or decrease as required.

**Before striking an arc, ensure your vision is protected** by the welding mask lens.

**Holding the welding rod/electrode holder at an angle of 60-70 degrees** to the surface, **move it towards the work until it strikes an arc.**

Now, **keeping the arc about 3mm long, work slowly along the weld** in a series of semi-circular sweeps across the line of the joint.

**Chip off any slag build-up** on the weld before making a second pass along the joint.

**Note that recommended settings are merely guides. Changing them slightly may give better results. So, always make a test weld.**

**To Use As A Generator...**

**If you wish to use the generator, you may power either 110V up to a max. of 2kVA, or 230V up to a max. of 5kVA or 415V up to a max. of 6kVA.** However, if you are welding at the same time as taking power you must ensure that the total demand does not exceed the generator's maximum output.

**To use the unit for generating, check the ammeter reading is at 250V, at this setting the unit will produce either 415V, 230V or 110V CTE (centre tapped to earth) power.**

Note that **all the circuits are protected by an RCD**, and therefore the earthing point on the unit must be correctly grounded (see 'ELECTRICAL SAFETY'). This must be done by a qualified electrician.

### Power Limits

**Never overload the generator. To calculate the running load, add up the power ratings of everything to be connected to it in kilowatts 1kW (kilowatt) = 1000 W (Watts).** Depending on the equipment being powered this should be between half and two-thirds the generator's kVA rating but, if in doubt, ask your local HSS Hire Weld Depot for advice.

**When you need to use the welder again, switch OFF whatever you are powering.**

### EQUIPMENT CARE

**Never push the equipment beyond its design limits.** If it will not do what you want with reasonable ease and speed, assume you have the wrong type or size of welder for the job. **Ask at your local HSS Hire Weld Depot for advice.**

**Check the oil level before starting and every 8 hours thereafter.** Withdraw the dipstick, wipe it clean and then replace it. Remove it a second time to verify that the oil level is between the min and max lines. Top up if necessary (see illustration).

**The welder/generator will run happily provided there is sufficient fuel, the engine doesn't overheat and the engine oil level is correct.**

**If the engine stops, check to see if the oil pressure lamp is illuminated or the reserve fuel lamp is illuminated. If either are top up as necessary.**

**Even if you are only stopping work for a short break, shut down the engine completely.**

**Keep the equipment clean.** You will find this less of a chore if you clean it up regularly rather than wait until the end of the hire period.

When not in use, **store the equipment somewhere clean, dry and safe** from thieves and unauthorised users.

### FINISHING OFF

**When you have finished with the welder/generator, stop welding and switch OFF everything being powered by it and allow the engine to idle for a minimum of 5 minutes.**

**Set the key to OFF and wait until the engine stops.** Leave everything to cool then take the earth clamp off the work.

**If you have finished with the equipment completely, you should now clean up the welder generator** as thoroughly as possible, **disconnect the welding leads then coil them** neatly ready for return to your local HSS Hire Weld Depot.

### Road Safety

**Before towing always make sure:-**

**The Welder Generator is correctly fitted to the vehicle tow bar and the breakaway cable is fitted.**

**The jockey bar is raised and locked.**

**All lights and brakes work and a number plate is displayed.**

**When towing this equipment, DO NOT EXCEED A SPEED OF 50MPH.**



### ... have you been trained

The law requires that personnel using this type of equipment in the workplace must be competent and qualified to do so.

Training is available at HSS Training  
0845 766 7799

### ...any comments?

If you have any suggestions to enable us to improve the information within this guide please e-mail your comments or write to the Safety Guide Manager at the address below  
e-mail: [safety@hss.com](mailto:safety@hss.com)

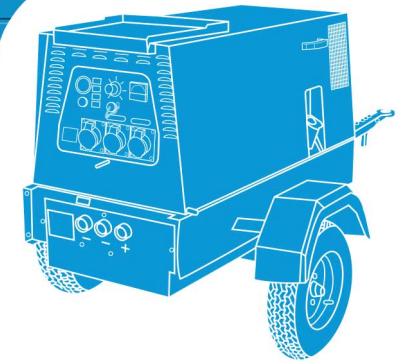
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76 Talbot Road, Old Trafford, Manchester, M16 0PQ

[www.hss.com](http://www.hss.com)

## Operating & Safety Guide 2879

# HSS Hire



## 300amp Super Silenced Welder Generator

A diesel welder generator, for MMA.



Code 55848

## GENERAL SAFETY

For advice on the safety and suitability of this equipment contact your local HSS Hire Weld Depot.

There is a serious risk of personal injury if you do not follow all instructions laid down in this guide.

The hirer has a responsibility to ensure that all necessary risk assessments have been completed prior to the use of this equipment.


Most welding tasks may be considered as hot work in site situations and may be subject to specific permits to work.

This equipment should only be used by an operator who has been deemed competent to do so by his/her employer.

This equipment should be used by an able bodied, competent adult who has read and understood these instructions. Anyone with either a temporary or permanent disability, should seek expert advice before using it.

Keep children, animals and bystanders away from the work area. Cordon off a NO GO area using cones, barriers or tape, available for hire from your local HSS Hire Weld Depot.

Welding screens are also available for hire from your local HSS Hire Weld Depot.

 Never use this equipment if you are ill, feeling tired, or under the influence of alcohol or drugs.

 Equipment being powered by this generator may produce potentially harmful noise levels. To

### Warning!

During electric/electronic welding/cutting operations, intense magnetic & electrical fields are produced and these may interfere with other electronically sensitive equipment.

All personnel wearing Heart Pacemakers or other electronically controlled medical devices must be kept away from any electric/electronic welding/cutting operations.

The welding/cutting equipment should be installed at least 5 metres away from any computer equipment to minimise any possible interaction.


Cables carrying signals between electronic devices are capable of picking up interference from electric/electronic welding/cutting operations. This interference may prejudice the way in which these devices function and therefore all signal-carrying cables should also be sited outside the 5 metre zone.

Do not place objects that are sensitive to magnetism (wristwatches, credit cards, computer discs etc.) near the welding or cutting zone. They may be rendered useless.

The welding/cutting equipment is itself electronically sensitive and its position relative to other radiation emitting equipment (mobile phones, remote controls, motor speed controllers etc.) must be considered.

comply with health and safety at work regulations, ear defenders must be worn by everyone in the vicinity.

 Fumes produced by the welding process, if inhaled, can be harmful to health. A suitable mask must be worn when using this equipment. Respiratory protective equipment is available for hire, contact your local HSS Hire Weld Depot for details.

 Skin must be covered – wear practical, protective clothing, gloves and footwear.

This equipment is heavy, never attempt to lift it, always get help.

A head shield with an 11 EW shade MUST be worn by anyone in the work area – goggles are not suitable. Avoid loose garments and jewellery that could interfere with the work.

If the head shield or lens becomes damaged, return it to your local HSS Hire Weld Depot.

### Let It Cool

Handle welding equipment and work with care – it will be hot. Leave equipment to cool before changing welding rods, moving earth clamps, and so on.

Always switch equipment OFF before making any adjustments to it. Never leave it switched ON and unattended.

### Exhaust Danger

NEVER operate diesel engines indoors or in a confined space.

The exhaust contains gases that can kill.

### Fuel Safety

NEVER refuel while the engine is hot or running. Never smoke or allow naked lights into the area while refuelling.

Never inhale fuel vapour.

ALWAYS mop up any spillage as quickly as possible, and change your clothes if you get fuel on yourself.

ALWAYS store fuel in a purpose-made sealed container, in a cool, safe place well away from the work area.

Engines, especially the exhausts, get very hot so switch OFF and allow to cool before touching them. Keep flammable materials well away from engine and exhaust.

Ensure the work area is well lit and ventilated, a fume extractor or smoke eliminator should be used. If in doubt, ask about lighting and ventilation equipment at your local HSS Hire Weld Depot.

Do not work near flammable gases or liquids, petrol or paint thinner fumes for example. Keep combustible materials at a safe distance - at least 5m.

Make sure you know how to switch this welder/generator OFF before you switch it ON in case you get into difficulty.

## Vehicle Safety

Before carrying out welding work on cars/lorries and similar vehicles...

Remove the vehicle's battery and disconnect the alternator.

Remove all combustible material and other fire/explosion hazards.

Check the condition of the equipment before use. If it shows signs of damage or excessive wear, return it to your local HSS Hire Weld Depot.

COSHH information sheets are available from your local HSS Hire Weld Depot.

## ELECTRICAL SAFETY

This equipment is capable of supplying up to 7kVA of 230V power or 4kVA of 110V power or 8kVA of 415v 3-phase power (but only one voltage at a time), continuously. However, it cannot power the weld at the same time as the generator.

Before you use the unit as a generator you must STOP welding.

Keep all leads and cables out of harm's way, and clear of the work area.

Leads and cables should be fully unwound and loosely coiled, away from the equipment. Never run them through water, over sharp edges or where they could trip someone.

Keep the Welder/Generator and other electrical equipment dry at all times, providing it with adequate shelter from the weather. Operating in wet or very damp conditions can be dangerous.

To reduce the risk of electric shock, all PTO's fitted to this unit are protected by an RCD (Residual Current-Operated Device). However, the RCD will only protect the user if the unit has been correctly earthed.

You must have a suitable earth cable connect the generator's earth terminal and to a suitable earthing point. This operation must only be performed by a qualified electrician and must conform to IEC 364 standard.

Ensure any tools are switched OFF before plugging into the PTO.

Always turn OFF all electrical switches before making or breaking connections or servicing equipment powered by the generator.

Never use a generator to power computers, and similar electronic equipment. It will damage them!

Always turn OFF the Welder/Generator's engine when not in use and before servicing the engine itself.

### Safety Cut-Outs

All HSS Welder/Generators have circuit breakers that cut OFF the power if the electrics become overloaded (due to a fault in the generator or the equipment being powered by it). If a circuit breaker trips, unplug everything, then reset the switch to restore the power.

Never start or stop the Welder/Generator 'on load'. Always switch OFF and unplug all equipment powered by it.

## GETTING STARTED

This guide is designed to help the user to safely set up and use the welder. It is not intended as a guide to welding techniques as it is assumed that the user already has the necessary training/knowledge and experience.

Stand the Welder Generator on a firm, level surface strong enough to bear its weight. DO NOT use on slopes, soft ground or where there is a risk of subsidence.

Chock the wheels and unhook from any towing vehicle, then set the jockey leg to the correct height.

To start the generator's engine from cold, turn the ignition key to the ON position and check the warning lamps.

The oil and battery lamps should illuminate to confirm there is power, if the reserve lamp is ON, the unit will not run and you will need to refuel using clean fresh diesel.

Once the fuel is in place turn the key to the 'GL' (glow plug) position and wait until the glow plug warning light goes out.

Turn the key to the 'ST' (start position), the engine will turn over, then once running return the key back to the ON position.

Let the engine warm up for a minimum of 10 minutes and then turn the ignition key to the OFF position to stop the engine.

Connect the welder/generator's earth terminal (a grounding point on the generator chassis, not to be confused with an earth cable used for welding) to an earthing point using suitable cable. This should be made by a qualified electrician.

Connect the earth welding lead to the '-' negative socket and the electrode holder welding lead to the '+' positive socket.

To fit the connections, insert the connector aligning the pin with the slot on the socket. Push the connector fully in then turn clockwise as far as it will go.

The generator can supply 415V, 110V or 230V, it is unable to supply more than one at the same time.

Ensure the metal to be welded is clean, dry and free from rust, paint, grease etc. Aim to weld only bright, bare metal.

Securely clamp the work pieces in their final positions to stop them moving during welding.

Clip the earth clamp onto the work piece, choosing an area of clean, bright metal close to the proposed weld to ensure a good electrical connection.

Now, insert a welding rod into the notch in the electrode holder's jaws. Squeeze the lever to open them; release to close.

## BASIC TECHNIQUES

Check the control panel settings before you start. Set the current dial to the amperage required.



# Know Your Symbols

HSS have created clear Icons to inform the hirer of their responsibilities towards the safe use of hire equipment.

These are designed to reduce the amount of different safety information labels required for each product for hire.

## General use PPE / Warning

Clearly marked minimum PPE will be visible on all equipment,



Correct PPE must be worn



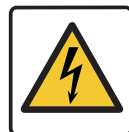
HAV Hand Arm Vibration



Danger Rotating blade



Danger Hot exhaust



Danger Electric shock



Caution Abrasive Wheel



Caution Finger trap

## Fuel and Supply Types



Pe  
Petrol



Di  
Diesel



2t  
2 - Stroke Petrol



EI  
Electric

## Safe Procedures

All hirers must understand and respect the safe procedures of all equipment.

It is the responsibility of the hirer to maintain and return the equipment in a clean condition and good working order.



Ro  
Read OPS Guide



Ou  
Outdoor Use only



HI  
Heavy Lifting



Cd  
Check Oil daily



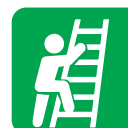
Cf  
Check Fuel daily



Cw  
Check Water daily



Bc  
Battery Care



Sh  
Safe Height Working



Swl  
Refer to Data Plate



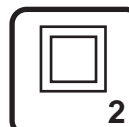
V  
Check Power Voltage Data Plate

## Electrical Safety

Safe wiring procedures.



Ea  
Must be Earthed Class 1



Doi  
Double Insulated Class 2



Enl  
Earth Live Neutral Wire Coding

## Return Responsibility

Charges apply to equipment returned dirty and damaged.



Cc  
Cleaning Charge



Rc  
Repair Charge