

POWER OUTPUT CAPACITY...

It is very important that you follow these calculations to ensure that you are not overloading the units windings.

Below is a list of the **MAXIMUM** which you can take from the generator at any one time. **BUT** the maximum has to be calculated combining all voltages used.

110V power output. 20kVA continuous.

240V power output. 30kVA continuous.

415V Power output. 40kVA continuous.

If you draw 20kVA in 110v, you cannot draw power from any other voltage.

If you draw 10kVA in 110v (50% of its maximum), you can only draw 50% power from either of the other voltages IE: 15kVA @ 240v or (not and) 20kVA @ 415v.

If you draw 10kVA @ 415v you can draw either 22.5kVA @ 240v or 15kVA @ 110v.

If you are unsure at any time, contact your local HSS Hire Shop for help and advice.

There is a phase balance switch on the control panel and it should be set at '0' for normal running. During normal use, if you are unsure that the 3 phases are balanced (i.e. 1 phase is being over used), turn the switch in turn to each of the 3 positions L1L2, L2L3, L3L1 and observe the Voltmeter reading. If the meter registers anything other than 415v the demand on that phase is too great.

To rectify this, reduce the power consumption on that phase.

If the units windings become overheated the engine will automatically stop and the 'overload' lamp will illuminate. If this should happen, allow the unit to cool before restarting and after reassessing the power being consumed.

There are a variety of sockets available and all may be used at any one time provided that the Max output capacity is not exceeded.

All 240v and 415v outlets are protected by an ELCB and either a micro circuit breaker or thermal trip.

The 110v outlets are NOT protected by an ELCB but are protected by either MCB's or thermal trips . All 110v outlets are Centre tapped to earth (55v-0-55v).

EQUIPMENT CARE

Never push the generator beyond its design limits.

If it will not do what you want assume you have the wrong equipment for the job. Contact your local HSS Hire Shop for advice.

Regularly check the fuel level using the gauge and top up as necessary with diesel. If the unit runs out of fuel the engine will stop automatically before the tank is totally empty, this saves the user from having to bleed the fuel system.

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

FINISHING OFF

Switch OFF all equipment powered by the generator then turn **OFF** the generator's power controls and **unplug all leads** connected to it.

All that remains is to return the unit to your local HSS Hire Shop.



...any comments?

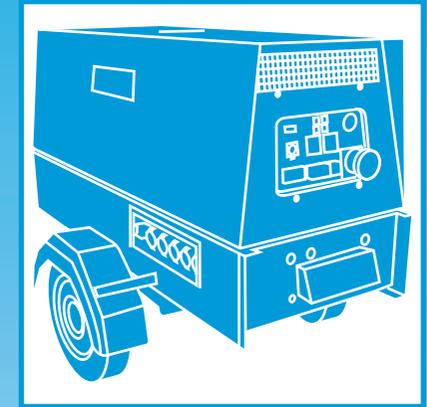
If you have any suggestions to enable us to improve the information within this guide please fax your comments or write to the Product Manager at the address below

Fax: 0181-687 5001

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HSS Hire Shops



40kva Generator

A road tow generator capable of providing 110V, 240V or 415V (3 phase) power.



Code 41340

GENERAL SAFETY

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

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

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.

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

 Although these generators are silenced, the equipment being powered may require the user to wear ear defenders.

Check the equipment before use, if it shows signs of damage or excessive wear, return it to your local HSS Hire Shop.

Exhaust Fumes

Never operate diesel engines indoors or in a confined space.

The exhaust contains gases that can kill.

Engines, especially the exhausts, get very hot so switch OFF and allow to cool before touching them. Choose a location for the generator that keeps flammable materials well away from the engine and exhaust.

Towing Safety

This unit is equipped to be towed on the public highway.

Before towing always make sure:-

The generator is correctly fitted to the vehicle tow bar and the breakaway cable is fitted.

The jockey wheel is raised and locked.

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

Ensure the tyres are in a roadworthy condition and inflated to 65psi (4.48 bar)

When towing this equipment, DO NOT EXCEED A SPEED OF 60MPH.

Fuel Safety

NEVER refuel while the engine is hot or running.

NEVER smoke or allow naked lights into the area while refuelling.

ALWAYS mop up fuel spillages as quickly as possible.

Change your clothes if you spill fuel on yourself.

ALWAYS store fuel in an approved container, in a cool, safe place away from the work area.

ELECTRICAL SAFETY

The 240v and 415v power outlets on this unit are protected by an ELCB (Earth Leakage Circuit Breaker).

If required, the generator has the facility to connect to an earthing ground stake. Once the connections have been made by a qualified electrician, an impedance test should be carried out.

You can connect direct to a 110V and/or 240V supply.

If direct wired, make sure that all connections are made and tested only by a suitably qualified electrician.

Using electrical equipment in very damp or wet conditions can be dangerous.

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

Never start or stop the generator 'under load'. Always switch OFF and unplug all equipment powered by it.

Seek advice from your local HSS Hire Shop before connecting computers or other sensitive equipment to the generator.

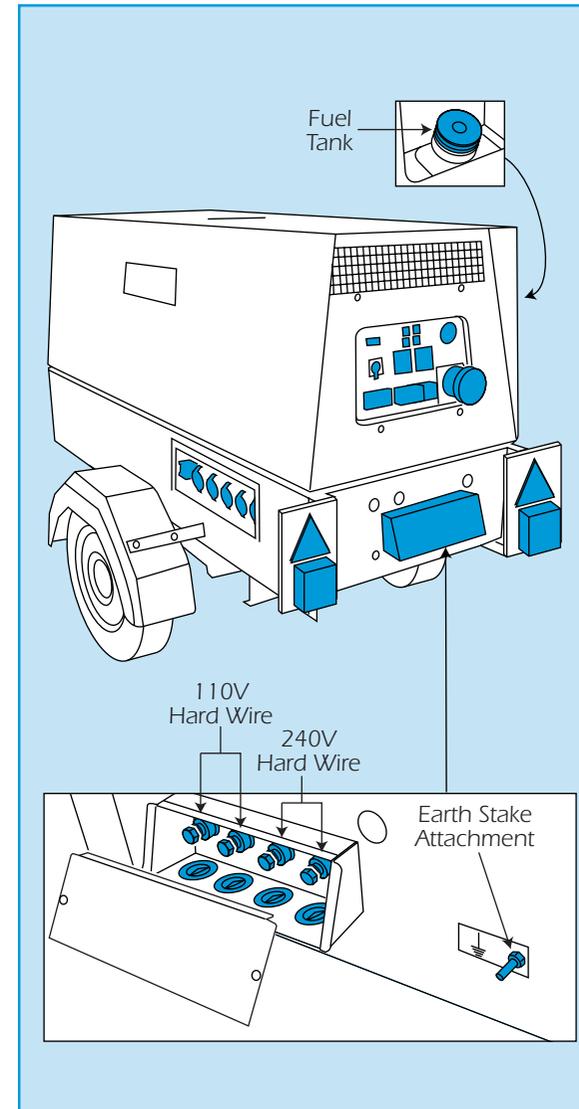
Keep flexes and extension leads out of harm's way. Extension leads should be fully unwound when in use. Never run them through water, over sharp edges, or where they could trip someone.

GETTING STARTED

Stand the generator on a firm, level surface strong enough to bear its weight. Use chocks on the wheels to prevent movement. Set the jockey wheel to the correct height and apply the hand-brake.

When connecting the equipment to the generator's power output sockets use only suitable power cables and plugs.

Ensure the ELCB and circuit breakers are in the 'ON' position, then plug your cable into the

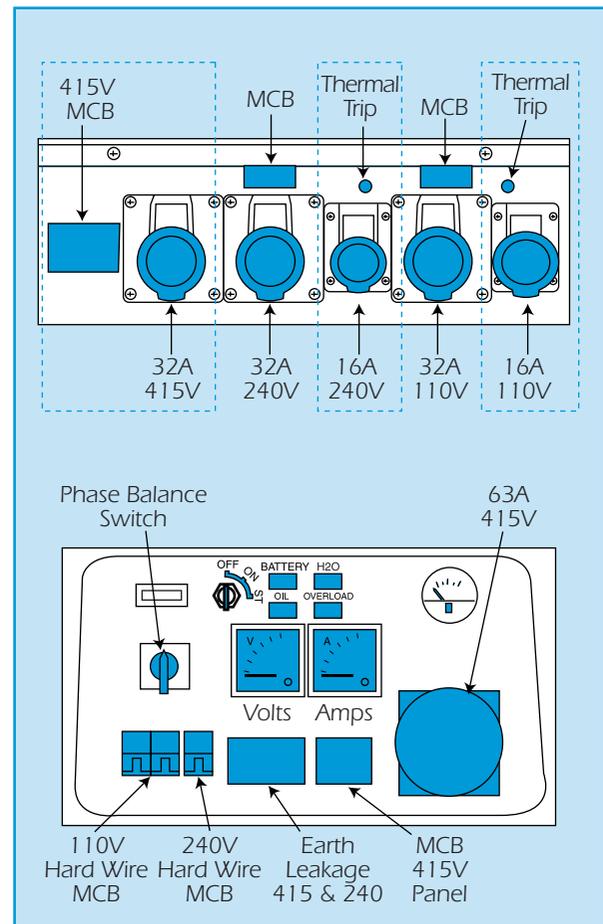


required output socket or if wiring direct ensure this is done through an isolator switch by a qualified electrician.

To start the generator, turn the starter key to the 'ST' start position. Once the engine has started, return the key to the 'ON' position.

Leave the engine to warm up for a minimum of 10 minutes on 'no load'. You may now power up the equipment.

To stop the generator, turn OFF the power supply. Allow the engine to idle for a few minutes then turn the key to the OFF position and wait for the engine to stop.



POWER AND PROTECTION

Power Supply

All HSS generator outputs are expressed in kVA units (Kilovolt Amperes). To obtain the true useable KW output, you need to multiply the kVA by a power factor of 0.8.

Oil & Water Level

Check the oil and the water level daily when the engine is cold and with the generator on level ground. Top up as necessary, failure to do so will result in damage to the engine.