



23783

Diesel Generator



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Specification

Product Description

This diesel generator is a mobile and portable solution to supplying power during construction projects, power cuts and other situations where electrical power may not be available.

We at Monster Group UK understand this is a new and exciting purchase, and although it is tempting to get stuck in please carefully read these instructions before you start using the machine.

Please Note: The T-Mech Diesel Generator is designed to be used by a competent person. It should not be used or stored in direct sunlight, warm environments, wet or damp conditions.

Please refer to and read Safety Advice, Safe Working Practice to ensure prevention of injury or damage to the device before starting.

Product Specifics

Generator:

Frequency: 50Hz

Max. Output: 6.5kW

Rated Output: 6kW

Rated AC Voltage: 115V- 230V

DC output: 12V- 8.3A

Single Phase

Alternator Type: Self-excited, 2 pole

Electric Start- 36AH battery

Fuel tank capacity: 16L

Maximum running time: 7 Hours

Specification

Product Specifics

Engine:

Engine: 13HP - 498cc - One cylinder- 4-stroke

Lubrication Oil Level: 1.8L

Dimensions: 93cm L x 53cm W x 69cm H

Weight: 160kg

Item Contents

1. Diesel Generator
2. Wheel (x4)
3. Fuel filter
4. Socket plugs
5. Key
6. Gaskets
7. Gasket for wheel (x8)
8. Tool bag
9. Funnel
10. Wrench

Monster Guarantee

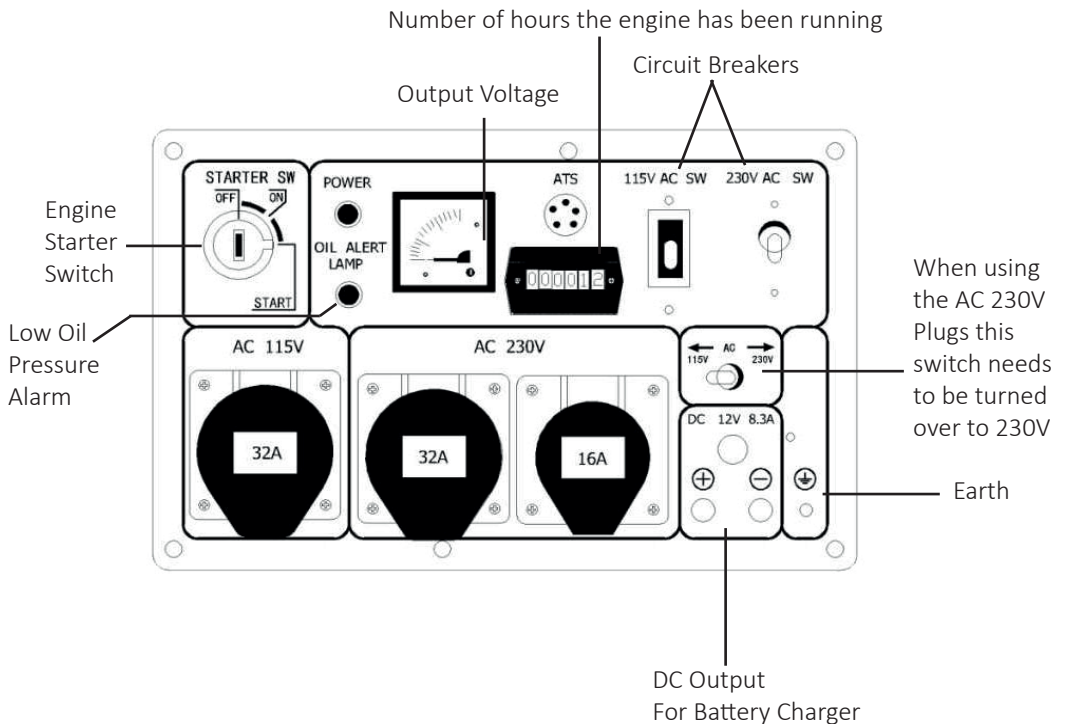
If you wish to return a product in perfect working order, we provide a 30 day returns policy as long as the item is unopened and in a resalable condition.

A 12 month warranty applies to all of our electrical products; we will cover the cost of labour and parts. Our policy is to try and repair the item before arranging an exchange or refund.

If for any reason a part is missing please get in touch with us within 7 days on receipt of your order. You can contact our friendly and helpful Customer Support Team via email or call. For full terms and conditions contact our Support Department via the details on the Contact Us page.

Specification

Product Features



Safety Advice

Safe Working Practice

Please read through the safe working practice to ensure prevention of injury or damage to the device.

Do not use petrol, kerosene or other fuels other than diesel fuel.

Keep all flammable and explosive substances safely away from the generator.

Keep the generator at least 1.5 metres or 5 feet away from buildings or equipment.

Never operate this unit in a closed room or garage.

Operate the generator on a level and smooth surface.

Diesel fuel is very flammable. Do not use or fuel the generator anywhere near a flame, sparks or while smoking. Allow the engine to cool before re-fuelling.

Ensure caution when handling fuel. We recommend you fuel the machine at least 3m away from your work area in case any spilt fuel ignites when starting the engine.

Never add fuel while the engine is running.

The generator needs ventilation – the emissions contain carbon monoxide. Refuel in a well ventilated area with the engine off. In order to operate indoors, a suitable ventilation system for the building would be required, this will draw the exhaust fumes out.

Never touch the exhaust or its cover when the diesel engine is running. Do not touch after the engine has been turned off as the exhaust will still be hot.

Do not store the generator indoors while the engine is still hot.

Do not pour water on the generator.

Do not immerse the machine in water or any other liquid.

Do not touch the generator if it is wet, or your hands are wet.

Do not operate this unit in the rain.



Safety Advice

Safe Working Practice

To prevent electrical shocks and short circuits, the generator should be grounded. Use a lead to connect the grounding end of the generator to the grounding surface of choice.

When connecting devices to the generator, make sure all other devices are rated lower than the generator's output. Any generator socket should not be overloaded over its regulated limit.

Do not operate the generator if you are tired, ill or under the influence of alcohol or drugs.

Be aware of the risk of injury to yourself and possible bystanders. Any bystanders, children or pets should be at least 15 meters away.

The battery contains sulphuric acid. In order to protect your eyes, skin and clothing, wear personal protective equipment. If your skin comes into contact, wash it immediately with clean water. If it comes into contact with your eyes, seek medical attention immediately.

Do not smoke or allow flames near the battery, especially while in charging mode. Always charge batteries in a fully ventilated area.

Do not exceed the red plug in the filter in the fuel tank.

Do not start the diesel engine without the air filter installed.

Do not overfill the fuel tank. Make sure the fuel tank cap is securely tightened after refuelling.

Do not spill any fuel. If fuel is spilled, make certain that the spilled fuel is removed before starting the engine.

Check the oil level before starting. Too much oil may cause a sudden increase in engine speed which could damage your generator.

You must start the generator in the OFF position. Starting it in the ON position can be very dangerous.

Do not connect the negative and positive terminals of the battery together at any time. Doing so will damage the battery.



User Guide

Fuel

Do not add too much oil or diesel. The oil and diesel should not exceed the neck of their separate filling ports. If any oil or diesel spills, wait until the fuel is removed or volatilizes completely, and then restart the engine.

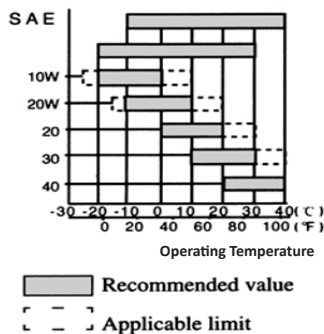
- Only use light diesel fuel.
- Keep dust and water out of the fuel. Failure to do so could cause problems for the injection pump and nozzles.
- Do not overfill the fuel tank. Do not exceed the red piston in the filter.

The diesel engine has a low pressure alarm system. If the oil drops too low, the sensor will turn the engine off. This is to ensure that the engine does not seize up.

Oil:

1. Use SAE15W-30 oil for the oil tank. SAE15W-30 is recommended for general use. Other viscosities shown in the chart may be used when the average temperature in your area is within the indicated range.
2. When checking the oil level, remove the oil filler cap and wipe clean the dipstick.
3. Insert the dipstick into the oil filler neck, but do not screw in.
4. If the oil level is low, fill to between the top and bottom limitations of the oil dipstick. Do not overfill the tank beyond the red plug inside the fuel oil filter.

This generator is equipped with a 'low oil' warning system. This system will automatically stop the engine when the oil level becomes dangerously low, preventing damage to your generator. Do not rely completely on this system for maintaining proper oil levels as it is meant for an emergency situation, and not a method for checking the oil level of your generator. You can use the dipstick to check your oil level.



User Guide

Assembly Instructions

The pictures below show the steps to follow when attaching the wheels to the generator.



Checking the Generator

Before starting the generator make sure the main switch is in the OFF position. You must unplug any devices that are to be powered by the generator.

Always open the generator door and inspect the engine prior to starting the generator. To do this, simply lift the latch.

User Guide

Operational Instructions

Do not plug in tools or devices before starting your generator.

Manual Start:

1. Move the fuel valve lever to the ON position.
2. Move the handle of the engine (speed handle) to the RUN position.
3. Pull the recoil starter handle out until you feel resistance. The handle should be put back gently in order to prolong the life of the engine.

Electric Start:

1. Insert the key into the ignition and put it in the OFF position.
2. Move the handle of the engine (speed handle) to the RUN position.
3. Turn the ignition key to the START position and hold it there until the engine starts. If the engine fails to start within 5 seconds, release the key, and wait at least 10 seconds before operating the starter again.
4. When the engine starts, release the key, allowing it to automatically return to the ON position.
5. If the choke lever has been moved to the CLOSED position to start the engine, gradually move it to the OPEN position as the engine warms up.

Battery Start:

1. Insert the key into the ignition and put it in the OFF position.
2. Put the handle of the engine (speed handle) in the RUN position.
3. Turn the start switch clockwise to the START position. To set the silent type, first turn it clockwise to the RUN (ON) position for 1-2 seconds. The electromagnetic iron will be triggered. Now turn it clockwise to the START position.
4. After the engine has started, the switch will automatically reset itself to the ON position.

Operating the Generator:

1. Check the fuel and oil levels prior to starting.
2. Pre-heat the diesel engine for 3 minutes under no load conditions.

User Guide

Operational Instructions

Output of electricity:

1. Raise the revolutions per minute (turn the handle of the engine/speed handle to the maximum setting) of the generator to get the maximum power out of the generator. If not, the automatic voltage regulator device will prematurely wear. The AVR is a consumable part, replacements can be bought from MonsterShop.
2. Observe the indicator on the voltmeter, it should point to $220V \pm 5\%$ (50Hz). This is the reading of the voltage at the ac socket.

Loading:

When connecting devices to the generator, make sure to connect the devices in order by connecting the larger loads to the generator first. If everything is functioning correctly, you can begin to add smaller loads. If the generator turns off, it may be because the load being drawn from all of the devices is too high. You must decrease the number of devices until everything can function. The total drawn power should not exceed the maximum output power of the generator.

In order to reset the generator after it has overdrawn power, turn it off and let it sit for several minutes. If the indicator of the voltmeter is too high or too low, adjust the speed accordingly.

Charging the battery:

1. For the electric starter, the 12V battery is automatically charged through the regulator on the generator when it is running.
2. If the generator is not used for long periods of time, the battery should be disconnected to avoid energy loss from the battery.
3. To disconnect the battery cable, first disconnect the motor end of the cable.

Stopping the generator:

1. Take the electrical load off the generator.
2. Turn the generator air switch off.
3. Put the handle of the engine (speed handle) in the RUN position and let the engine run for 3 minutes after unloading. Do not stop the diesel engine immediately, let it warm down. Stopping the diesel engine suddenly may raise the temperature of the engine to an abnormal level, lock the nozzle and

User Guide

Operational Instructions

damage the diesel engine.

4. Press down on the brake handle.
5. If equipped with an electric starter, turn the key to the OFF position.
6. Put the fuel handle to the OFF position and slowly pull the recoil handle until you feel resistance.

Stopping the engine:

To stop the engine in an emergency, simply turn the engine switch to the OFF position.

1. Move the throttle lever to the SLOW position.
2. Turn the engine switch to the OFF position.
3. Turn the fuel lever to the OFF position.

Maintenance

Oil Change: Make sure you change the oil regularly as there are many parts in the engine that need to be lubricated. Running the engine with a low oil level can cause engine damage.

1. Drain the used oil when the engine is warm. Warm oil drains quickly and completely.
2. Place a suitable container below the engine to catch the used oil.
3. Remove the oil filler cap/dipstick and drain the oil into the container by tipping the engine toward the oil filler neck. Please dispose of used motor oil in a manner compatible with the environment. Do not throw in the bin, pour on the ground, or down a drain.
4. With the engine in a level position, fill to the bottom edge of the oil fill hole with the recommended oil.
5. Reinstall the oil filler cap/dipstick securely.

To check the air filter:

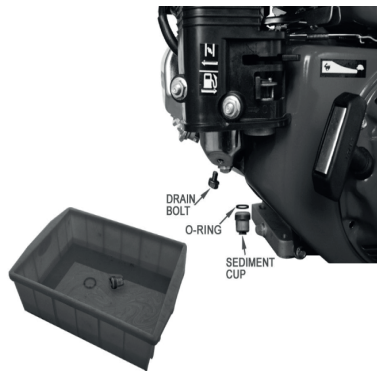
1. Loosen the butterfly nut.
2. Take the cover off of the air filter and take the element out.
 - Do not wash the filter with detergent.
 - Replace the air filter when it stops the flow of air and cannot be completely cleaned. An indicator of this is when the engine exhaust changes colour.
 - Never operate the generator without the air filter.
3. Replace the air filter element and cover.
4. Tighten the butterfly nut.

User Guide

Maintenance

Sediment Cup Cleaning:

1. Move the fuel valve to the OFF position, then remove the fuel sediment cup and O-ring.
2. Wash the sediment cup and O-ring in non-flammable solvent, and dry them thoroughly.
3. Place the O-ring in the fuel valve, and install the sediment cup. Tighten the sediment cup securely.
4. Move the fuel valve to the ON position, and check for leaks. Replace the O-ring if there are any leakages.



Idle Speed Adjustment:

1. Start the engine outdoors, and allow it to warm up to operating temperature.
2. Move the throttle lever to its slowest position.
3. Turn the throttle stop screw to obtain the standard idle speed.

Standard Idle Speed: 1,400 ± 150 rpm

Troubleshooting

Resolution Guide

Please read through the guide below if you have any issues or faults with your device. The information covers and resolves the majority of frequently asked questions.

Q: There are parts missing from my order.

A: If there appears to be any part missing from your package contact our Customer Support team via the details on the Contact Us page within 7 days of receipt.

Q: The engine will not start.

A: Check the battery and fuse, as you may need to recharge the battery or replace the fuse. Check there is enough fuel and oil, you may need to re-fuel.

Q: The generator will not turn on.

A: Check that you have the correct power supply, and that it is supplying the correct voltage.

Q: The plugs aren't working.

A: Make sure you have turned the AC switch to the correct voltage.

For all other issues please contact our Customer Support department via the details on the Contact page.

Contact Us

Sales Department

For information regarding this device or other products from our Monster divisions please use the following details below.

Tel: 01347 878888

Email: hello@monstershop.co.uk

Support Department

For queries about this device, warranty, returns or reporting faults please use the following details below.

Tel: 01347 878887

Email: help@monstershop.co.uk

Website

To view our product range and fantastic offers in the Monster Chef division please visit our website

www.monstershop.co.uk

Address

To visit our office Monster House and view our products, send postal correspondence or return items our address is provided below.

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Industrial Estate, Sheriff Hutton, York YO60 6PG



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