



# YAMAHA GENERATORS

Tomorrow's Power Now!

■ INVERTER MODELS

■ 4-STROKE MODELS

■ DIESEL MODELS

# YAMAHA GE

Yamaha is always a step



Yamaha generators are packed full of state-of-the-art technology that not only guarantees high-level performance in the various functions you hope for from a generator but also makes them outstanding in operability, economy and durability. And, to make sure that there is a Yamaha to fit all types and conditions of use, we offer a wide range of model variations

# GENERATORS

ahead, for a better life



so you are certain to find just the right generator to fit your needs. Get yourself a Yamaha generator and discover a new level of convenience and carefree use that only the most advanced technology in the industry can provide. A Yamaha generator will help make your work easier, more efficient and more creative.



# CONVENTIONAL INDUSTRIAL SERIES 4 STROKE GENERATORS

## ► Features and Equipment to Meet Various Applications.

### 1 No more complicated, bothersome maintenance

Because Yamaha generators adopt a brushless type generating mechanism, there is no bothersome maintenance like the changing of carbon brushes. Also, because these generators have a maintenance-free electronic ignition system, you are ensured smooth starting and stable performance. Other important features like Stellite-faced exhaust valves and cast iron sleeve cylinders ensure unmatched durability for the kind of reliable, carefree power supply you want from a generator.

### 2 Designed for quietness and low vibration

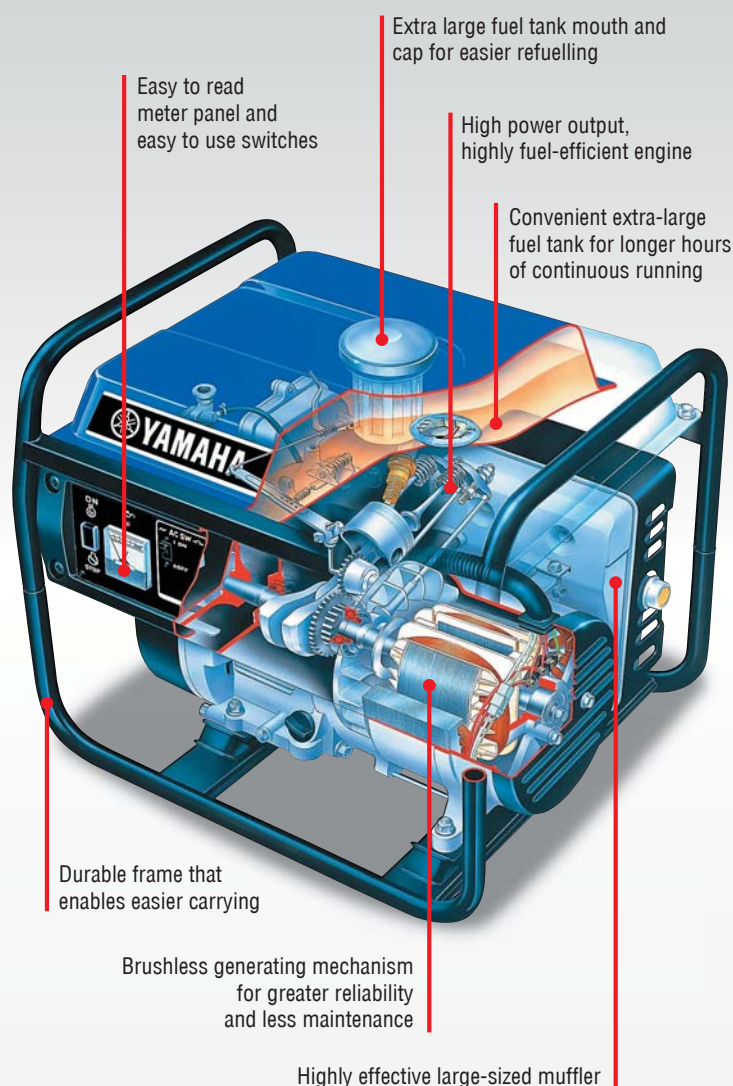
The large noise-absorbing muffler means extra-quiet exhaust while the large air cleaner also reduces intake noise. What's more, optimization of the shapes of the engine's moving parts effectively reduces mechanical noise as yet another part of Yamaha's comprehensive noise-reduction design. Meanwhile, rubber engine mounts help eliminate annoying vibration.

### 3 Long running time and outstanding economy

These generators are powered by highly reliable OHV engines known for excellent combustion efficiency and high power output. These engines are also characterized by low oil consumption. That means you get the electrical power you need at an economical running cost.

### 4 Performance that is one rank higher

Compared to other generators in the same class, Yamaha generators have larger displacement engines that ensure power to spare and performance that is the best in the business.



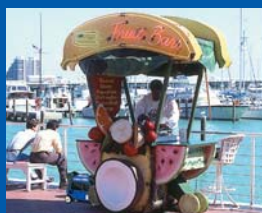
## ► Yamaha Generators are designed to supply powerful electricity everywhere and anytime.

### For outdoor leisure



The Yamaha Generator features a lightweight, compact body and portability. It is very convenient to put in your car and optimal for use in camping.

### For restaurants, shops & outdoor markets



Yamaha Generators run very quietly and are perfect for use in stores and market stalls. You can illuminate the exterior and run the eftpos, making the appearance and convenience more attractive to the customers.

### For photographers



Yamaha Generators are useful when taking photographs and filming for a long period of time. It can, of course, supply extra electricity for lighting effects at night, too.

## ► Damper Winding Adopted for Greatly Reduced Waveform Distortion Ratio

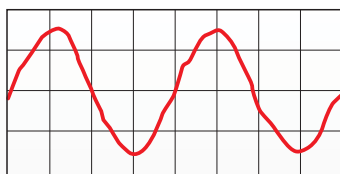
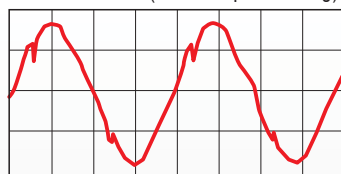
Adding a damper winding (short-circuit ring) to the alternator's rotor serves to correct the distortions in magnetic flux occurring during electricity generation and makes it possible to greatly reduce waveform distortion ratio by adding a skew to the alternator core. This greatly expands the range of electric appliances the generator can be used with to include those operating with microcomputer control, such as air-conditioners, computers and uninterruptible power supply (UPS) systems that require quality electricity. FW series generator is a wave distortion ratio of about 6.2% at a rated load connection.



EF2600FW

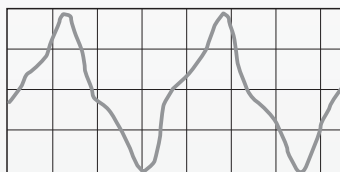
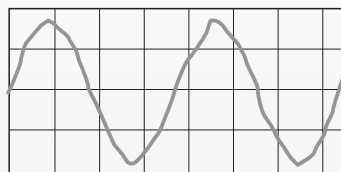
## ► Effect of Damper Winding Function on Wave Distortion Ratio

■ EF2600FW (with damper winding)



■ Competitor generator of same output (AVR type)

\* AVR (Automatic Voltage Regulator)



\* The above data is from Yamaha tests. Tests of the above models were performed at different loads, so an exact comparison is not possible. Refer to these only as examples of waveform distortion when load is introduced.

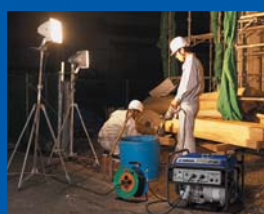


EF5200FW



EF6600E

### At construction sites



Yamaha Generators have excellent durability and powerful generation ability. They also consume less fuel for an economic power supply.

### For outdoor work



The Yamaha Generator features ensure it is easy to operate and can be used outdoors. It can really show its worth and performance on construction sites and in remote areas.

### For anything



The inverter model is also available and designed to supply perfectly stable electricity, even better than a domestic power supply. It can be also used as a power supply for micro-computer assisted power tools.

# CONVENTIONAL INDUSTRIAL SERIES 4 STROKE GENERATORS

Introducing the Next Generation of Compact Generators

## ► EF2600FW

Unrivalled performance and peace of mind.

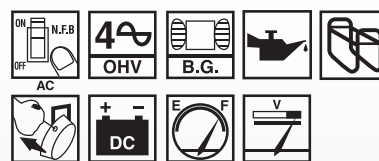
Rugged, lightweight and packed with features the EF2600FW is an excellent generator for the home or bach.

The EF2600FW boasts a powerful 5hp/171cc OHV Yamaha engine outputting 2000 watts continuous, a 12L large fuel tank that can run continuously for up to 10.6 hours and a specially designed muffler for reduced weight and noise.

Fully equipped with two 15 amp outlets and one circuit breaker, the EF2600FW perfect for powering small appliances - so if you're at the bach or simply wanting power backup at home, the EF2600FW will never let you down.



- 2300W max, 2000W rated
- High quality electricity
- Low oil auto shut off
- Heavy duty welded roll cage style frame
- Over 7 hours running time at ¼ load
- Fuel gauge monitor
- Quiet operation.



## ► EF5200FW

Meet your new best friend.

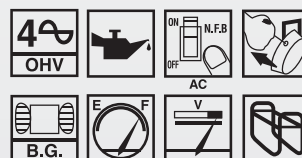
Delivering an unbeatable combination of power, economy and quiet performance, this compact generator will not let you down.

The EF5200FW boasts a powerful 12hp/357cc OHV Yamaha engine outputting 4500W maximum, 3800W continuous and a 25L long range fuel tank that can run continuously for up to 9.7 hours and an extra-large muffler for super quiet operation.

Fully equipped with two 15amp outlets and one circuit breaker, the EF5200FW is suited for industrial and domestic applications, and perfect for powering heavy duty tools - so whether you're at a remote job site or simply wanting power backup at home, you can always rely on an EF5200FW.



- 4500W max, 3800W rated
- High quality electricity
- Low oil auto shut off
- Heavy duty welded roll cage style frame
- Over 9.7 hours running time at ¼ load
- Fuel gauge monitor
- Twin 15A outlets.







#### Inverter

A computer-controlled inverter ensures high quality electricity.



#### Auto decompressor

Light recoil starting.



#### Economy control

Regulates rpm with power load for fuel economy and quietness.



#### Electronic circuit breaker

Auto cut-off of current when output voltage exceeds max. capacity.



#### Auto choke

Easier starting.



#### 4-stroke OHV engine

Compact size, high power, low fuel consumption & low noise level.



#### DC output capability

Convenient for battery charging.



#### Fuel gauge

Fuel level confirmation at a glance.



#### Voltmeter

Voltage confirmation at a glance.



#### Electric starter

Easier starting.



#### 2-stroke reed valve engine

Compact size & simple mechanism.



#### Brushless generator

Maintenance free.



#### Frame

Easy to carry & solid protection.



#### Non-fuse breaker

Easier 'on' & 'off' of AC output with circuit breaker.



#### Circuit breaker(s)

Fuseless type to protect the circuit against overcurrent.



#### Oil warning system

Engine stops automatically when oil level (pressure) has fallen below the prescribed level.



#### Carrying handle

Easy to carry.



#### Soundproof type



#### Parallel operation

## EF6600E

### Big time power.

The ultimate generator for home back-up or the worksite the EF6600E is all you'll want when the power goes down.

The EF6600E boasts a powerful 357cc OHV Yamaha engine outputting 5000W continuous, a 25L large fuel tank that can run continuously for up to 9.3 hours and with its electric start system you will have hassle free starting every time.

Fully equipped with dual 15amp outlets, the EF6600FW is equipped to take on the heavy-tasks with the simple push of a button.



- 5500W max, 5000W rated
- High quality electricity
- Economy idle for better fuel efficiency and quieter operation
- Heavy duty welded roll cage style frame
- Over 8.3 hours running time at ¼ load
- Fuel gauge monitor
- Electric start.



# INVERTER MODELS

Introducing the Next Generation of Compact Generators

You bring the task - we've got the power!

## Light, quiet, portable and easy to use...

Yamaha generators are quickly becoming the industries and serious campers workhorse of choice.

Yamaha's portable range of 4-stroke petrol powered inverter generators are the new wave in generator technology for when you need clean, high quality electricity in a compact and light weight package. This means they are easy to transport whether operating equipment in the field, four-wheel-driving, camping, fishing, using power tools or overcoming a power outage.

## What is an Inverter System?

An Inverter System stabilizes the amount of voltage and frequency produced by a petrol-driven alternator through the supply of "sine wave" electricity. That's why Yamaha inverter generators are the ideal power source when using precision equipment or microcomputer controlled electrical appliances.

## More controlled, clean power

Yamaha's Inverter System produces AC current within a controlled electrical circuit process, known as PWM (Pulse Width Modulation). As a result, fluctuations in engine speed do not affect the voltage or frequency of the electrical output while at the same time reducing output emissions.

## Multi-polar alternator system

The adoption of a Multi-Polar Alternator enables the generation of more efficient, high-frequency, 3-phase AC current that the inverter then turns into single phase electricity. The high efficiency alternators on a Yamaha inverter achieve a much lighter and more compact generating unit than conventional 2-pole rotor type alternators.

## Economy idle control

Bringing along a generator was never quieter or easier. That's why Yamaha created Smart Throttle™, a feature that automatically adjusts the engine speed to precisely match the load. Smart Throttle™ allows the generator to run quietly while increasing fuel efficiency, prolonging engine life and extending running time between refuelling.

## Advanced sound reduction

Generating electricity used to be a noisy task. That's why Yamaha created Noise Block™, an acoustically engineered sound reduction system. Noise Block™ technology utilises various sound absorbing materials, moulded cases, an intake silencer, fibre glass insulation, plus uniquely designed mufflers and fans to provide virtually silent running whilst maintaining quality performance. It also reduces electrical interference with TV and radio signals.

## Less than 2.5% distortion ratio

This means Yamaha inverter generators can be used with equipment that requires stable frequency and voltage, as defined by an ideal "sine wave" when graphed, like products with built-in computer functions and microcomputer controlled equipment (e.g. power tools and projectors).

## Features to look for

- **TwinTech™ (Parallel Use Function):** Hook up two generators of the same specification for almost double the power output, while retaining the same voltage and frequency of a single unit. Only available with models EF2000iS and EF2400iS.
- **Electronic Circuit Breaker:** Cuts off current when output voltage exceeds the designated maximum output capacity.
- **4-Stroke OHV Engine:** Powerful performance, precise valve actuation, excellent heat dissipation, low fuel consumption and reduced noise level.
- **Oil Warning System:** Engine stops automatically when oil level is low, prevents engine damage and minimises costly repairs.
- **Electric / Non-Fused Overload Breaker:** Prevents generator damage in case of overload.
- **Auto Decompressor:** Light recoil starting reduces compression for effortless starting.
- **Petrol Petcock:** Reduces carburettor contamination during storage by turning off petrol flow and allowing the carburettor to run dry.
- **DC Output Capability:** Convenient for battery charging.
- **Fuel Gauge:** Displays fuel level without having to open the fuel cap.
- **Electric Starter:** Provides effortless starting, electric motor cranks generator until it starts.
- **Voltage Meter:** Voltage confirmation at a glance.
- **Brushless Alternator:** Minimal maintenance, hassle-free service and clean output.
- **Long Range Fuel Tank:** Improved efficiency and longer running time.
- **USFS-Approved Spark Arrestor:** Keeps sparks from exiting exhaust system to reduce risk of errant sparks causing a fire.

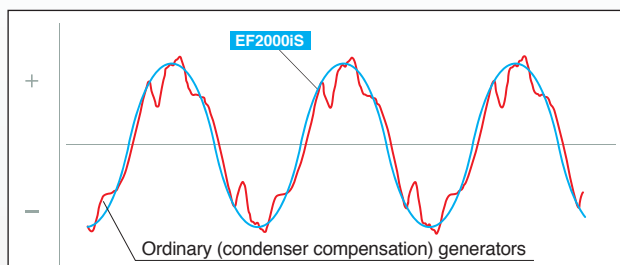




## Perfect power!

### “Sine wave” electricity for precision machinery

The alternate current is generated by means of an inverter system. This inverter system employs Pulse Width Modulation (PWM) to output high-quality “sine wave” electricity. This means it can be used safely with precision equipment like a microwave oven, PCs and appliances with microcomputer functions.



\*Yamaha test

#### Waveform distortion of under 2.0%

This generator can be used for appliances that require “sine wave” electricity, such as appliances with built-in microcomputer units or microcomputer control systems.

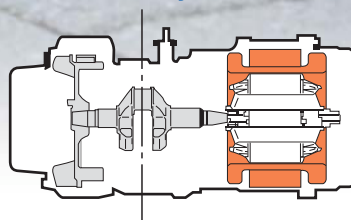
### Merit of multi-polar alternator

Adoption of an inverter system enables the alternator to generate highly efficient high-frequency 3-phase AC current.

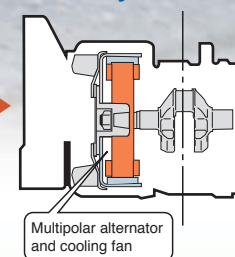
The alternator for inverter generators is a multi-polar type composed of two 18-pole stator coil(s) and a rotor with six permanent ferrite magnets.

Adoption of this highly efficient alternator makes it possible to achieve a dramatically lighter and more compact unit compared to conventional alternators with bi-polar synchronous rotors.

#### Conventional System



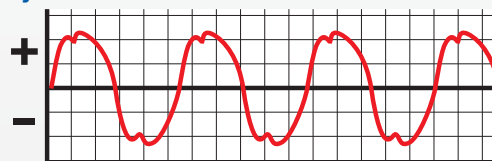
#### Inverter System



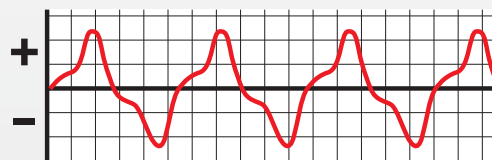
### A wave distortion ratio of less than 2.0% is achieved.

This model can be used with equipment that requires stable frequency and voltage (as defined by an ideal “sine wave” when graphed), like products with built-in computer functions and micro computer -controlled power tools or equipment like projectors.

#### Cyclo-converter

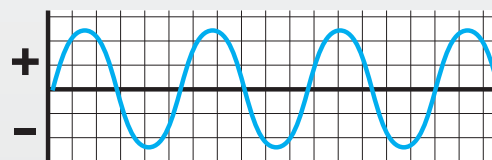


#### A.V.R



\*Powerfactor-0.6 (Yamaha statistics)

#### EF2000iS Inverter



\*Yamaha test

# INVERTER SERIES

Introducing the Next Generation of Compact Generators

## ► EF2000iS

### New parts for quieter performance

The new EF2000iS is for people who want to carry the generator anywhere with ease. The aim was to make it light and compact, but super powerful 20kVA output. The new MZ80 engine was designed with a primary aim of making it as light as possible, while the generator body has been designed of light yet strong materials including polypropylene.

Thanks to these efforts, the weight of the EF2000iS is just 19.9kg! The dimensions were also revised for easy handling and user friendliness.



### No.1 in ease of use. All-in-one control panel

EF2000iS is No.1 in ease of use. As with the popular EF2400iS, all the starter and control functions are gathered in one place on the front panel. You can do all the operations to start and run your EF2000iS from the same position. We have positioned the recoil type starter pull and switch panel for easier access.

### Parallel use function for wider range of uses

This model is outfitted with a parallel-use function as standard equipment to enable the use of two generators to accommodate a wider range of uses (widened range of output needs). You can connect two units of EF2000iS by using the optional parallel connection kit. Professional users operating a variety of precision devices sometimes need a little more output. With the EF2000iS you can connect two units to get the added output maximum of 3.0kVA for a variety of work uses.

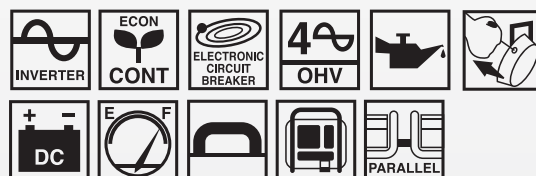
### Big power in a compact package

Get power at your fingertips, whether you need to run a cooker or commercial power tools. The EF2000iS is one of the lightest generators around, and its 19.9kg weight means you can carry it with just one hand.

Despite its power, a large capacity muffler ensures that it runs with a low noise emission of just 51.5 dB(A). The compact control panel, with all dials on one side, makes it easy to use, and fits with the new clean and retro overall design. The 4.2 litre fuel tank will allow for 10.5 hours of continuous operation at 1/4 rated load.

So, whether you take it camping or to a building site, this brushless inverter is up to the job.

- 2000W max, 1600W rated
- High-output, 79cc engine
- Retro-modern style and light weight
- Up to 10.5 hours cont. running at 1/4 rated load
- Large capacity muffler for quieter running
- Economy control for saving fuel
- Easy-to-use control panel
- Large handle for carrying by one or two people
- 4.2 litre fuel tank
- Easily detachable panel for servicing
- Easy start, auto-decompression system
- Complies with gas emission regulations
- TwinTech capability.



## ► EF1000iS

Ultimate lightweight portable electricity.

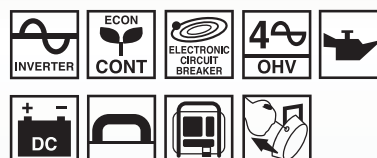
Quiet, durable and convenient, the Yamaha EF1000iS is designed for anyone seeking an ultra-portable source of electricity. It combines compact proportions with an impressive maximum operating time of 12 hours.

Ideal for camping trips and outdoor events weighing in at only 12.7kg, the EF1000iS can be used to power a range of appliances - from radios and TVs to coffee makers. It also has a 12V outlet for battery charging.

The inverter system with pulse width modulation produces higher-quality, cleaner electricity, and sound absorbing materials keep the volume down. Combined with the easy to use single sided control panel, it makes for a quiet and convenient power source.



- 1000W max, 900W rated
- Lightest weight in its class, only 12.7kg
- Compact design
- High quality electricity
- Quiet operation
- 12hr operation (1/4 rated load Economy Control on)
- 4-stroke, air-cooled 50cc engine
- Easy start, auto-decompression system.



## ► EF2400iS

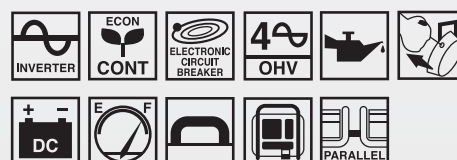
Clean, quiet & surprisingly powerful.

The EF2400iS combines convenience and power in one desirable package. A weight of 32 kg takes the strain out of transportation, while ultra-quiet operation levels (54-59 dBA) keep noise to a minimum.

However, the 2400iS counters its size with an output of 2.4 kVA continuous. This gives you the power to drive a range of medium to larger appliances - including the 13,500 BTU class air-conditioners that are used in many recreational vehicles. And it has the capability for even more, thanks to its Twin Tech capacity. Hook up two EF2400iS generators for 3.8 kVA of maximum power.



- 3800W max, 2400W rated
- TwinTech capability
- Easy start, auto-decompression system
- Smart throttle varies engine speed based on load
- Quiet operation
- Lightweight construction
- 2.4 kVA power suitable for a variety of appliances.





# INVERTER SERIES

Introducing the Next Generation of Compact Generators

## ► EF2800i

Lightweight professional power

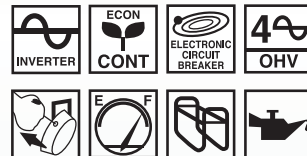
Weighing just 30kg, the compact EF2800i punches out a maximum of 2.8kVA and features a special design that combines a cooling fan for both engine and generating unit in one space-saving unit.

This unique design keeps the EF2800i light, so it's perfect for any occasion when you need heavy-duty power that's easy to move from place to place. Switch to Economy Control and you can enjoy operation times of up to 17 hours at ¼ rated load.

It's also an incredibly resilient machine, with an oil warning system that automatically shuts down when oil is low to ensure durability, and a cast-iron cylinder lining to ensure consistent performance whatever demands are made of it.



- 2800W max, 2500W rated
- Lightweight frame
- Compact design
- High quality electricity
- Heavy duty performance
- Electric start
- 17 hour run time at ¼ rated load economy control
- 4-stroke, air-cooled OHV 171cc engine.



## ► EF3000iSE

Pure power on wheels.

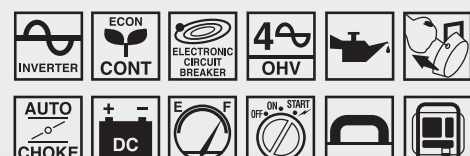
Get the power you need for anything from a coffee-maker to a circular saw - in compact, user-friendly form. The EF3000iSE offers a 3.0 kVA capacity and maximum running time of over 20 hours at ¼ rated load in Economy Control mode.

Despite its sizeable power, the EF3000iSE has a whisper-quiet, low running sound of just 51dB(A)- and because it's mounted on four wheels, moving the generator around couldn't be easier.

And the smart throttle's load-sensing control automatically adjusts the engine speed to match the load, for greater fuel efficiency and noise reduction.



- 3000W max, 2800W rated
- High quality electricity
- Wheels for easy manoeuvrability
- Low noise level
- Heavy duty performance
- Over 20 hours running time with Economy Control
- Easy to operate
- Electric start.





## ► EF6300iSE

The most powerful inverter yet.

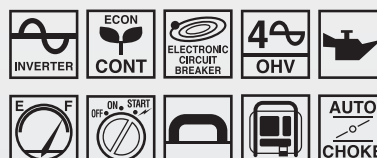
The all new EF6300iSE is the most powerful, most advanced Yamaha inverter generator ever.

The EF6300iSE quietly cranks out up to 6.3kVA of pure sine wave inverter power at 230 volts to confidently run high-demand items such as pumps and RV air-conditioners, as well as sensitive equipment like plasma TVs and computers.

The advanced features packed into the EF6300iSE include, electric start and optional wireless remote to provide you with everything you'd expect from Yamaha in one beautiful, powerful and compact package.



- 6300W max, 5500W rated
- High quality electricity
- Wheels for easy manoeuvrability
- Low noise level
- Heavy duty performance
- LED power meter shows power usage
- Over 13 hours running time with Economy Control
- Easy to operate
- Wireless remote control and electric start.



# DIESEL ENGINE INDUSTRIAL SERIES

## Introducing the Next Generation of Compact Generators

### Super silenced and Powerful

The use of an oversized capacity radiator on the EDL Series generators, a super heavy duty muffler and a low speed fan ensures market leading low operating noise levels. A tuned air cleaner hose plus double element air cleaners further reduce suction noise to make sure these generators are the quietest available on the market and are built for the toughest environment.

### Easy maintenance

The fuel capacity on the EDL Series of generators has been increased to 28 litres for extended working applications. Control panels are centrally located and easy to use, providing full operating information at a glance. Single sided maintenance reduces the operator's workload and makes checking the oil, fuel, cooling water and battery levels a simple operation. Transportability is made easy with special forklift openings on the base of the unit as well as a one point lifting eye.

A large capacity sump ensures that oil change levels are extended to 200hr intervals to reduce downtime and operating costs and a fully enclosed breathing system minimises splashback. Double element air cleaners are standard allowing the generators to be used in dusty or sandy environments.

Another benefit of the generator and engine being direct coupled is that there is no drive belt to adjust or maintain on these models.

### Compact design

Based on the cutting edge Japanese technology the EDL Series of generators achieve their compact design and superior performance by direct coupling the alternator to the engine.

### Easy view control panels

Control panels are centrally located and easy to use, providing full information at a glance.

### Detachable forklift sides

The units overall height can be decreased even more by removing the forklift slides for built-in applications.

### Optional accessories

A remote control start kit is available for convenient starting in power out situations (Part # EDL-RSK).

### Easy on the environment

The ETVCS vertical diesel engine which powers the EDL Series of generators are designed to meet the strictest standards which include the USA EPA Emission Control Tier 4 regulations. The concave recess on the piston head helps Yamaha's ETVCS (Three Vortex Combustion System) generate three intense swirling air flow (vortexes) within the spherical-combustion chamber to obtain an optimum air/fuel mixture. This superb combustion system improves the power output, fuel economy, and engine start-ups while reducing both noise and toxic emissions.

### Safety measures

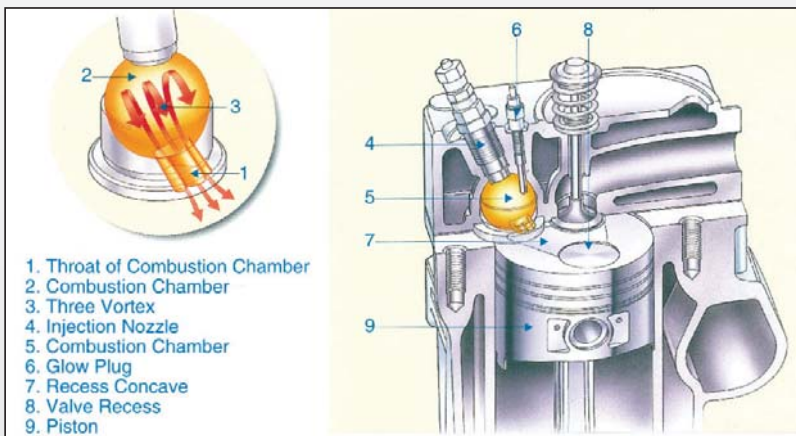
The EDL Series of generators provide covers for the engine cooling fan and generator for safer operation. An automatic shutdown is activated if water temperature is too high or oil pressure drops below a safe operating level and a Starter Safety System prevents the starter engaging again after initial start.

### Superb power to weight ratio

The EDL Series offers 50% more output with only 10% overall increase in cabinet size versus other generators in the market.

### The best in the business

The new super mini vertical diesel engines are water cooled and have increased performance for dependable horsepower and when directly coupled to the generator, provide continuous power output levels with minimum power loss.

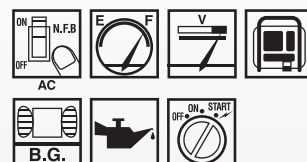




## ► EDL7000SE



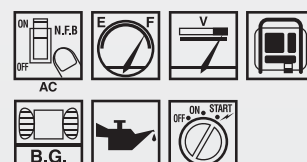
- 6000W max, 5500W rated
- Super silenced 65 dBA
- 12 hours operating time
- Low maintenance
- Low cost running
- Twin 15A outlet
- Easy to transport
- Electric start
- Easy to read fuel level.



## ► EDL11000SE



- 8800W max, 8000W rated
- Tier 4 diesel engine
- Auto safety shut down
- 67 dBA - super quiet
- Compact unit
- Low maintenance.



# POWER REQUIREMENTS

## Calculating your total power needs

1. Firstly, list the item you need to run that has the highest starting wattage.
2. Then take the running wattage of this item and add to it the running wattage of all the other items you need to power simultaneously. **This is your total running (rated) wattage requirement.**
3. Next, take the start up wattage of the same item and add to it the running wattage of all the other items you need to power simultaneously. **This is your start up (maximum) wattage requirement.**

You should try to pick a generator with the power outputs that are greater than the totals you calculated above.

Microwave 750W	750	1000	Central Air Conditioner:		
Coffee Maker	1750	1750	10,000 BTU	1500	2200
Electric Clothes Drier	5750	5750	24,000 BTU	3800	5000
Washing Machine	1150	2300	32,000 BTU	5000	6500
Refrigerator	700	2200	Room Air Conditioner:		
Lights	100	100	10,000 BTU	1500	2200
Jug	2000	2000	Circular Saw 7 1/4"	1400	2300
Electric Frypan	1500	1500	Chainsaw 2HP	1300	3000
Dehumidifier	400	400	Portable Air Compressor	1200	3600
Fan Heater	2000	2000	Hand Drill 1/2"	600	900
Dishwasher - Cool Dry	700	1400	Drill 1/2"	600	900
- Hot Dry	1450	2000	Battery Charger 15 amp	500	700
Toaster - 2 Slice	1250	1250	Electric Welder 200 amp AC	9000	9000
- 4 Slice	1600	1600	Jigsaw	300	400
Freezer	2200	2500	Electric Weed Trimmer	500	800
Hair Dryer	800-1700	800-1700	Router	1000	1300
Steam Iron	1800	1800	Belt Sander	1000	1300
Garage Door Opener - 1/4 HP	550	1100	Table Saw 10"	1750	4250
- 1/3 HP	725	1400	Bench Grinder	1400	2450
Radio	200	200	Concrete Mixer 3.5c/f	1900	2500
Blender	375	500	Band Saw	1100	1500
Sump Pump 1/2 HP	1050	2150	Power Drill - Medium	1000	1500
Well Pump 1/2 HP	1000	2100	- Heavy Duty	1500	2000
Household Water Pump	1200	2700	Angle Grinder - 100mm	1000	1500
Halogen Work Lamp	500	500	- 230mm	2400	3000

This chart lists average power requirements. Your particular tool or appliance may require more or less than the listed wattage.

\* Where START wattage is the same as RUN wattage, this signifies no additional power is required for starting.



Model					
Type	Inverter	Inverter	Inverter	AVR	Inverter
Rated Output	0.9kVA / 900W	1.6kVA / 1600W	2kVA / 2000W	2kVA / 2000W	2.5kVA / 2500W
Max. Output	1kVA / 1000W	2kVA / 2000W	2.4kVA / 2400W	2.3kVA / 2300W	2.8kVA / 2800W

# CHOOSING A GENERATOR

## 1. What do you need to power?

The first question when selecting a generator to meet your requirements is "What am I wanting to power, both now and in the future?"

## 2. Make a list

Make a list of the appliances, tools and lighting that you want to use simultaneously. How many lights will you need to run alongside your powertools? Will you need to run the oven as well as the microwave at the same time?

## 3. Note the wattage required

The list on the previous page offers a guide on the wattages used on most common appliances and items used at home and in the workplace. For exact figures we recommend you check the nameplate or instruction manual for your individual appliances. Also listed (where applicable) is the "starting wattage" or "surge wattage" which is the amount of wattage needed to start an appliance with a motor. This may be up to three times the wattage required to run the appliance, so this must be taken into consideration.

All generators also have a maximum and rated wattage output. Rated power is the level where the generator can be operated continuously. Yamaha generators, due to the fact that they are built super strong, can handle peak start-up current requirements well in excess of other models on the market. However it pays to be aware that tools like compressors have very high (up to three times) start-up current requirements that need to be allowed for.

Other generator selection criteria includes:

- Weight / portability
- Operating sound levels
- Engine type (4 stroke or diesel)
- Fuel capacity
- Starting system (electric or recoil)
- Investment cost

## Portable Generators

A portable generator consists of two main components, a gasoline or diesel powered engine and an alternator. The alternator consists of a rotor (rotating) inside a stator (fixed). The engine power is used to rotate the rotor inside the stator which generates AC power. Portable generators have many applications at work and around the home and have made outdoor events and projects much easier to tackle.

The YAMAHA range of generators take this convenience and portability to another level with the latest technology and functions.

## Traditional Style Generators

Traditional portable generators produce power by using an engine to rotate two large coils of wire (the rotor) inside a circumference of magnets (the stator). Each full rotation of the engine produces one complete sine wave of AC power. Therefore the engine must maintain a constant speed of 3000RPM to produce the standard of 50Hz. (3000 revs / 60 seconds (1min) = 50Hz). No matter what the load, a traditional style generator must run at consistent speed to provide the correct power.



## Inverter Generators

An Inverter Generator is normally used where power is required for sensitive electronic equipment like PCs, TVs and instrumentation. They are also chosen when portability or size is important and where noise must be kept to a minimum.



Inverter	AVR	Inverter	Exciter with AVR	AVR	AVR
2.8kVA / 2800W	3.8kVA / 3800W	5.5kVA / 5500W	5kVA / 5000W	5.5kVA / 5500W	8kVA / 8000W
3kVA / 3000W	4.5kVA / 4500W	6.3kVA / 6300W	5.5kVA / 5500W	6kVA / 6000W	8.8kVA / 8800W



# SPECIFICATIONS

## CONVENTIONAL SERIES



MODEL		EF2600FW	EF5200FW	EF6600E
GENERATOR	Type	Bi-polar, revolving field with damper winding	Bi-polar, revolving field with damper winding	Brushless, Exciter with A.V.R, Synchronous AC Generator / Single Phase
	Rated Voltage(V)	230	230	230
	Frequency(Hz)	50	50	50
	Rated output(kVA)	2.0	3.8	5.0
	Max.output(kVA)	2.3	4.5	5.5
ENGINE	DC output	12V/8.0A	—	—
	Type	MZ175:4ST OHV forced air-cooled	MZ360:4ST OHV forced air-cooled	MZ360:4ST OHV forced air-cooled
	Displacement(cm <sup>3</sup> )	171	357	357
	Starting system	Recoil	Recoil	Recoil/Electric
	L x W x H(mm)	510 x 415 x 425	670 x 510 x 527	894x520x527(with battery tray)
GENERAL	Dry weight(kg)	41	79	89
	Fuel tank capacity(full)(l)	12	25	25.0
	Operating hours(Hr)	10.6	9.7	9.3
	Noise level(dBA)(7m)	65.0	71.0	71.5
	Brushless	✓	✓	—
FEATURES	Voltage regulator	Condenser	Condenser	A.V.R
	Damper winding system	✓	✓	—
	Auto decompressor	✓	✓	—
	Dual voltage	—	✓	—
	Circuit breaker system	AC:N.F.B / DC:Protector	—	N.F.B
ACCESS.	Fuel level gauge	✓	✓	—
	Oil level warning system	✓	✓	—
	Voltage meter	✓	✓	—
	Economy idle system	—	—	—
	Auto choke system	—	—	—
RECEPTACLE	Transportation kit	—	Option	Option
	Remote starter kit	—	—	Option
	AC plug	—	✓	—
	DC charging cord	✓	—	—
		15A 230V	(15A+15A) 230V	(15A+15A) 230V

# SPECIFICATIONS

## INVERTER SERIES



MODEL		EF1000iS	EF2000iS	EF2400iS
GENERATOR	Type	Inverter type	Inverter type	Inverter type
	Rated Voltage(V)	230	230	230
	Frequency(Hz)	50	50	50
	Rated output(kVA)	0.9	1.6	2.0
	Max.output(kVA)	1.0	2.0	2.4
ENGINE	Rated output in parallel use	—	3.0	3.8
	DC output	12V/8A	12V/8A	12V/8A
	Type	MZ50:4ST OHV forced air-cooled	MZ80:4ST OHV forced air-cooled	MZ175:4ST OHV forced air-cooled
	Displacement(cm <sup>3</sup> )	50	79	171
	Starting system	Recoil	Recoil	Recoil
GENERAL	L x W x H(mm)	450 x 240 x 380	490 x 280 x 445	527 x 419 x 461
	Dry weight(kg)	12.7	19.9	32
	Fuel tank capacity(full)(l)	2.5	4.2	6.0
	Operating hours (Hr/ 1/4 load)*1	12.0	10.5	8.6
	Operating hours (Hr/ rated load)*1	4.3	4.2	5.0
FEATURES	Noise level(dBA)(7m)*1	48.5(1/4 load) ~ 60.5(rated load)	51.5(1/4 load) ~ 61.0(rated load)	54.5(1/4 load) ~ 61.0(rated load)
	Voltage regulator	Inverter	Inverter	Inverter
	Circuit breaker system	Electronic	Electronic	Electronic
	Fuel level gauge	—	✓	✓
	Oil level warning system	✓	✓	✓
VOLTAGE FLUCTUATION	Pilot lamp	✓	✓	✓
	Economy control system	✓	✓	✓
	Hour meter	—	—	—
	Instantaneous	Less than 35%	Less than 25%	Less than 25%
	Setting	Less than 1%	Less than 5%	Less than 5%
ACCESS.	Setting time	Less than 3sec.	Less than 2sec.	Less than 2sec.
	Frequency stability	Less than ±0.1Hz	Less than ±0.1Hz	Less than ±0.1Hz
	Transportation kit	—	—	Option
	DC charging cord	✓	✓	✓
	Wireless remote control kit	—	—	—
RECEPTACLE		15A 230V	15A 230V	(15A+15A) 230V

\*1 Economy control system:ON

# SPECIFICATIONS DIESEL SERIES



MODEL		EDL7000S	EDL11000SE
GENERATOR	Type	Brushless AC Generator / Single Phase	Brushless AC Generator / Single Phase
	Rated voltage(V)	230	230
	Frequency(Hz)	50	50
	Rated output(kVA)	5.5	8.0
	Max.output(kVA)	6.0	8.8
ENGINE	Engine speed	3000	3000
	Type	4ST Liquid-cooled	4ST Liquid-cooled
	Displacement(cm <sup>3</sup> )	479	719
	Starting system	Electric	Electric
GENERAL	L x W x H(mm)	1066 x 618 x 698	1281 x 618 x 698
	Dry weight(kg)	235	295
	Fuel tank capacity(full)(l)	28	28
	Operating hours(Hr)	12.0	8.5
	Noise level(dBA)(7m)	65.0	67.0
FEATURES	Brushless	✓	✓
	Voltage regulator	A.V.R.	A.V.R.
	Electric starter	✓	✓
	Dual voltage	—	—
	AC Circuit breaker system	✓	✓
	DC Circuit breaker system	—	—
	Fuel level gauge	✓	✓
	Oil level warning system	✓	✓
	Water temp warning system	✓	✓
	Charging warning system	✓	✓
	Glow lamp	✓	✓
	Voltage meter	✓	✓
	Pilot lamp	✓	✓
	Ampere meter	—	—
	Frequency meter	—	—
	Hour meter	✓	✓
	Transportation kit	—	—
ACCESS			
RECEPTACLE		 (15A+15A) 230V	 (15A+15A+15A) 230V



EF2800i	EF3000iSE	EF6300iSE
Inverter type	Inverter type	Inverter type
230	230	230
50	50	50
2.5	2.8	5.5
2.8	3.0	6.3
—	—	—
—	12V/12A	—
MZ175:4ST OHV forced air-cooled	MZ175:4ST OHV forced air-cooled	MZ360:4ST OHV forced air-cooled
171	171	357
Recoil	Recoil / Electric	Electric
487 x 395 x 425	680 x 445 x 555	780 x 616 x 692
29	67	91
11.2	13	17.0
17.0	20.5	13.3
7.7	8.0	5.1
65.0(1/4 load) ~ 68.0(rated load)	54.5(1/4 load) ~ 61.0(rated load)	(1/4 load) ~ 64.0(rated load)
Inverter	Inverter	Inverter
Electronic	Electronic	Electronic
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
—	—	✓
Less than 25%	Less than 25%	Less than 25%
Less than 1%	Less than 1%	Less than 1%
Less than 2sec.	Less than 2sec.	Less than 2sec.
Less than ±0.1Hz	Less than ±0.1Hz	Less than ±0.1Hz
—	✓	✓
—	✓	—
—	—	Option
 (15A+15A) 230V	 (15A+15A) 230V	 (15A+15A+15A) 230V



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