

"Super premium Generator EU65is"

"Light weight/compactness" and "Super low noise" attained through our eminent "art"



Profile

○ Yearning from the sales department

Large portable power generators are used all over the world in various situations including emergency uses, commercial uses, home uses, and recreational uses typified in camping.

Honda has been injecting its technology into research and development of portable power generators seeking to respond to the perpetual demands of customers and of the society, for products that are "environmentally friendly, lightweight, compact, quiet, and that can maintain good fuel economy." Computers have become prevalent in everyday life leading to today's proliferation of electronic devices everywhere. Honda is developing generators that can supply high quality electricity, and in 1998 the proprietary sine wave inverter technology was developed to start producing EU10i portable generators. The inverter generators have advanced into Gene 21 series increasing its total number of sales steadily since the launch of the product, becoming the leading products in today's generator market.

We are now launching the highest grade model EU65is in the series, which is very popular with a great number of customers. The inverter technology and its light weight/compactness that characterize **the EU series are further evolved to provide greater power that can be used for various appliances as emergency power source for home, commercial, or recreational uses.**

With the new separate triple chamber construction (intake chamber, engine chamber, and exhaust chamber) in addition to the centralized intake/exhaust system, our traditional high-efficiency inverter and Eco Throttle, **the model becomes the top leader in the gasoline engine-powered generator market for "light weight/compactness" and "super low noise"** providing a solution to customers' demand for high quality life.

EU65is with its various new technological developments is the highest grade model that Honda is proud to present to the portable generator market.

"Super premium Generator EU65is"

"Light weight/compactness" and "Super low noise" attained through our eminent "art"



Profile

○Target

The highest grade model in the EU series that expands the area in which it can be applied

Super low noise



EX5500
65dB/175kg

- Light weight and compact
- Super low noise
- Low fuel consumption
- High quality power supply

Evolution



EU65is
60dB/115kg



ES6500
74.5dB/129kg



EM65is
69dB/95kg



EB6500
75dB/99.8kg

Light weight/compactness

* Noise level (rating) : dB (A) / 7 m

* Excluding handles, wheels, and removable protrusions (except for the guide pipe) (battery and battery subframe included)

"Super premium Generator EU65is"

"Light weight/compactness" and "Super low noise" attained through our eminent "art"



Profile

Further expanding the area in which it can be applied

such as emergency power source for home, commercial, or recreational uses

Compact size

Reduced more than **33%**

Dry weight is successfully reduced 35% compared to EX5500.

Inheriting the EU features such as light weight/compactness, quietness, and reliability

The highest grade model in the EU series

* High quality power output

Less than **2.5%**

Commercial grade electricity with the waveform distortion factor less than 2.5% and large power is available now

* High quality electricity

Lower fuel consumption

Over **20% less**

• High efficiency inverter conversion, and
• Eco Throttle
all make the lower fuel consumption possible.

* At 1/4 load
* Compared to EX5500

Lower noise

3 Reduced about **dB (A)**

• Separate triple chamber construction,
• Centralized intake/exhaust system, and
• Eco Throttle
all make the lower noise possible.

* At 1/2 load
* Compared to EX5500

Friendly features

1 MONITOR

Displays the Operation status and gives easy diagnosis

One-push folding handle
Easy maintenance



" Super premium Generator EU65is "

"Light weight/compactness" and "Super low noise" attained through our eminent "art"



Overview of product

○Basic Specifications

Model	Name	EU65is		
		R	U	SK
Dimensions	Total length (mm)	1195 【850】		
	Total width (mm)	672		
	Total height (mm)	716 【699】		
Weight	Dry weight (kg)	115 (including the battery)		
	Total weight (kg)	128.5		
Engine	Displacement (cm ³)	389		
	Type	GX390		
	Starting method	Self - starter and recoil		
	Effective fuel tank capacity (L)	16.5	16.5	13.8
	Ignition system	Full transistor ignition system (advancement control)		
Generator	Fuel	Unleaded gasoline		
	Frequency (Hz)	50	50	60
	Maximum output (VA)	6,500		
	Rated output (VA)	5,500		
	Output voltage (V)	220	240	220
	DC output (VA)	Not equipped		
	Generation method	Multipolar inverter system		
	Machine			
	Noise level (At 1/4 load) : dB (A) / 7m	52~60		
	Noise level (rating) : dB (A) / LwA	91		
	Rated continuous operational time (hr)	5.1 (with Eco - Switch on)	5.1 (with Eco - Switch on)	4.3 (with Eco - Switch on)
	Volume (L)	237 (excluding the handle and wheels)		
Equipment specifications	AC breaker	Electronic protector built in the inverter		
	Oil alert	Equipped (LED display)		
	Load-dependent revolution control	Equipped (Eco Throttle)		
	Governor system	Electronic governor		
	Voltage selector switch	Not equipped		

Figure inside 【 】 is for when the handle is folded

"Super premium Generator EU65is"

"Light weight/compactness" and "Super low noise" attained through our eminent "art"



Customer benefit

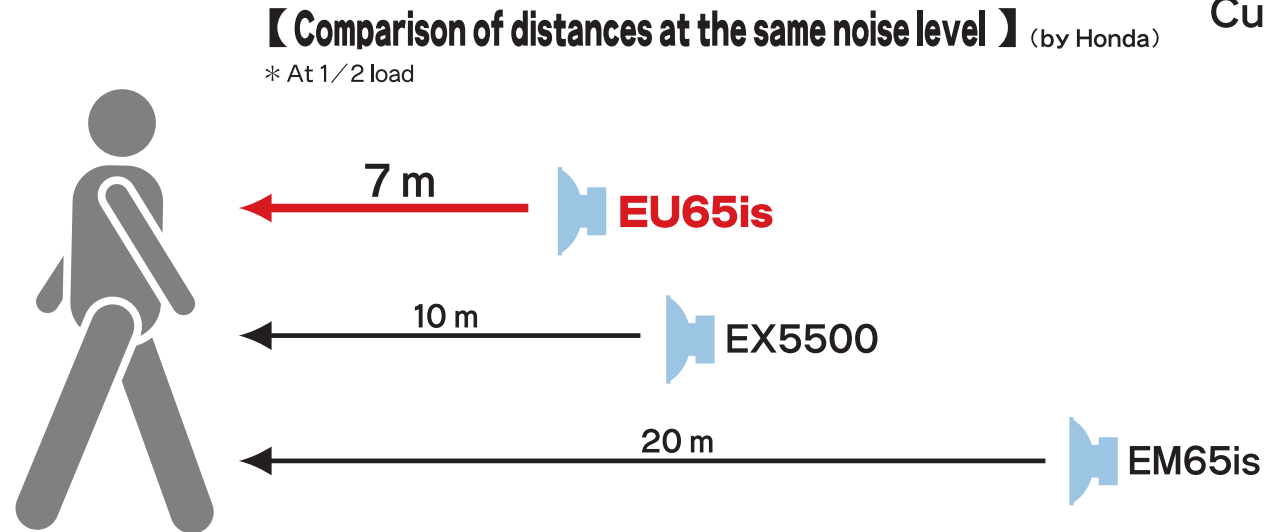
Lower noise

3 Reduced about dB (A)

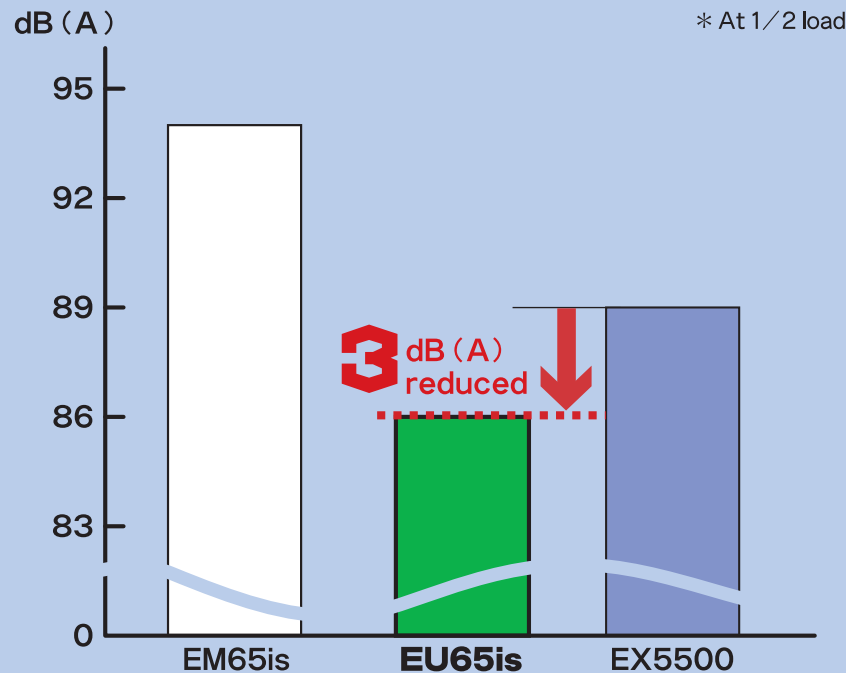
- Separate triple chamber construction,
- Centralized intake/exhaust system, and
- Eco Throttle

all make the lower noise possible.

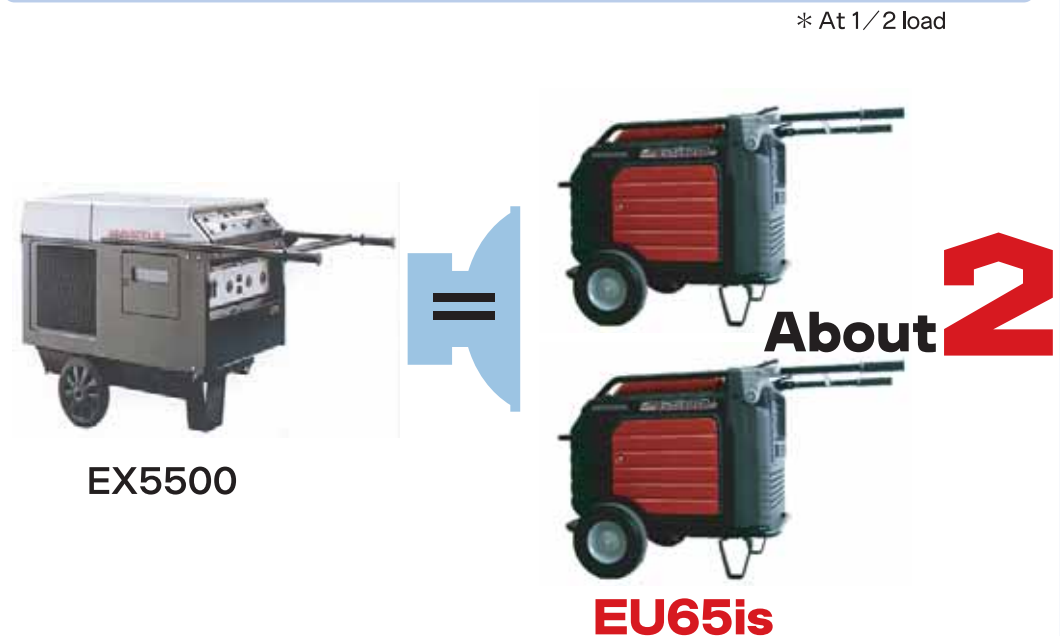
* At 1/2 load
* Compared to EX5500



【 Comparison of noise power level (LwA) 】 (by Honda)



【 Comparison of noise energy level 】 (by Honda)

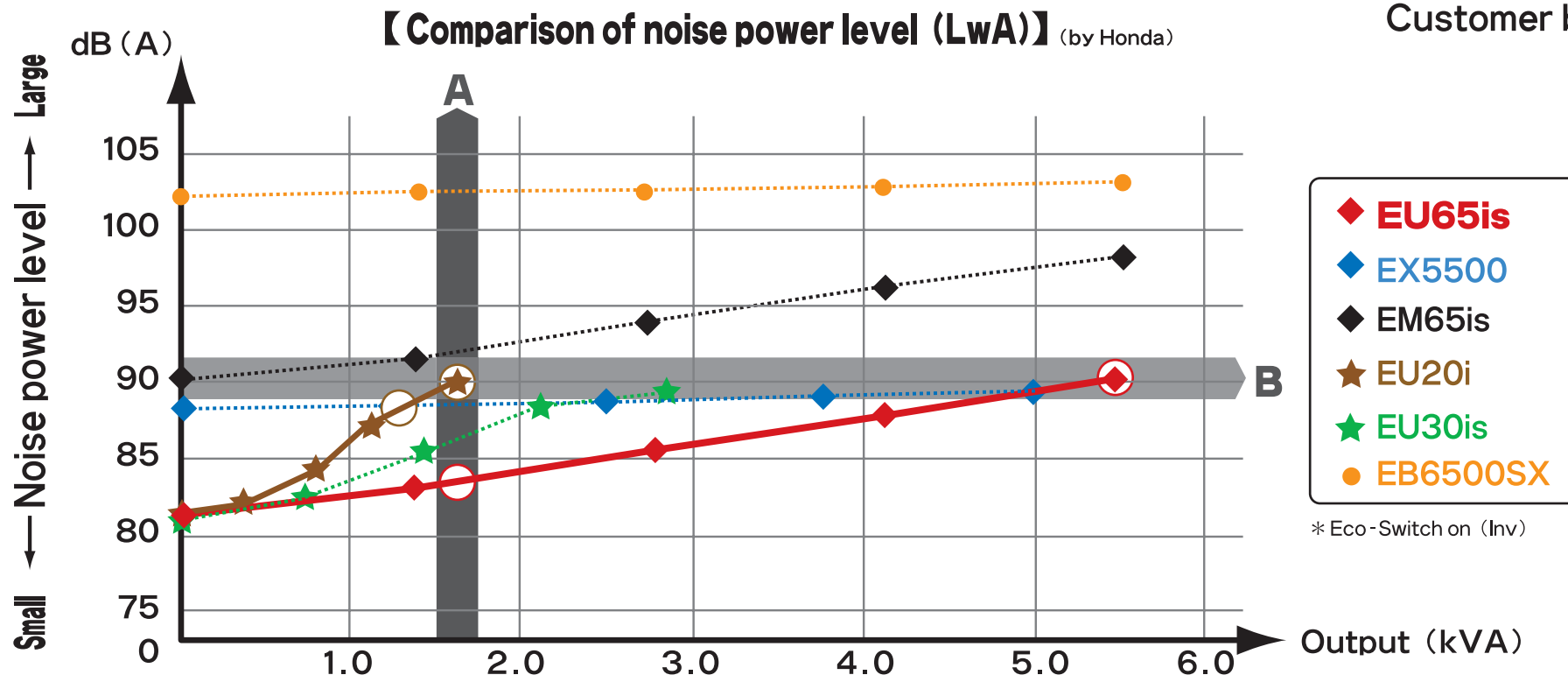


"Super premium Generator EU65is"

"Light weight/compactness" and "Super low noise" attained through our eminent "art"

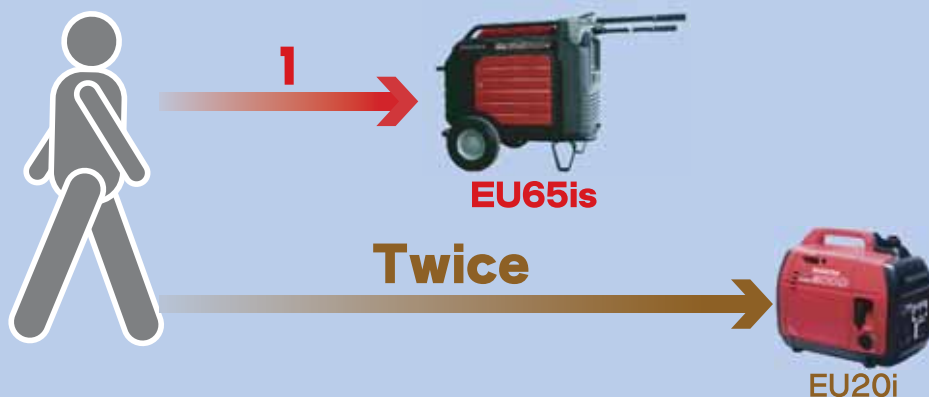


Customer benefit



A 【Noise distance comparison at 1.6 kVA load】

(by Honda)



B 【Comparison of power output at the same noise distance】

(by Honda)



"Super premium Generator EU65is"

"Light weight/compactness" and "Super low noise" attained through our eminent "art"



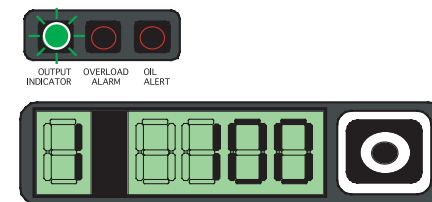
Customer benefit

Friendly features
iMONITOR
 Displays the Operation status and gives easy diagnosis
One-push folding handle
Easy maintenance

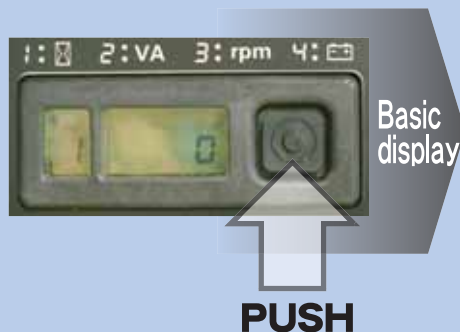


iMONITOR

【Regular operation】



【Operation status display example】

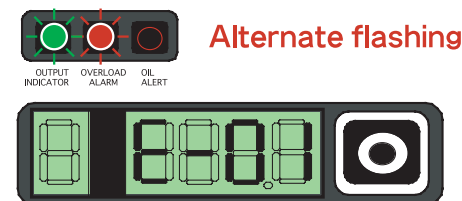


Hour meter	<p>Mode number display Numerical value display</p>
Generator output	
Engine speed	
Battery voltage	

【Easy diagnosis example (typical)】

System error

- * This notifies the system error of the machine. "E-XX" flashes.
- * Consult your dealer or service shop



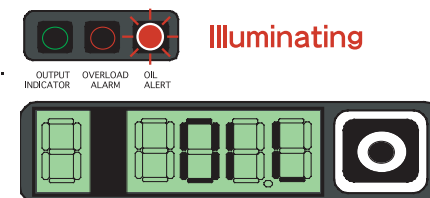
Overload warning

- * This illuminates when the inverter temperature rises abnormally due to overloading.
- * When overloading lasts more than 5 seconds, the engine automatically stops.



Oil warning

- * This illuminates when the engine oil is low. When the engine oil is low, the oil alert feature is activated to automatically stop the engine.



* For details, refer to the shop manuals.

"Super premium Generator EU65is"

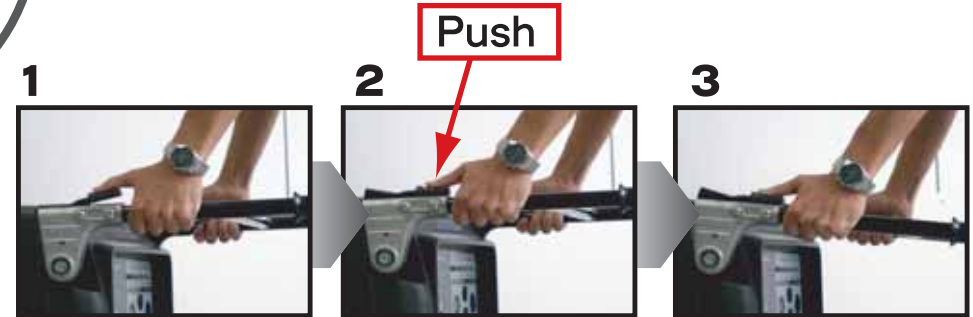
"Light weight/compactness" and "Super low noise" attained through our eminent "art"



Customer benefit



【One-push folding handle】



【 When in use or when stored 】



Hand-guard that protects the electronic device



Strong and sturdy rib-structured stand

【 When moving 】

Optimally sized H-shaped handle



Large diameter tires make moving smooth

"Super premium Generator EU65is"

"Light weight/compactness" and "Super low noise" attained through our eminent "art"



Customer benefit



【For maintenance】

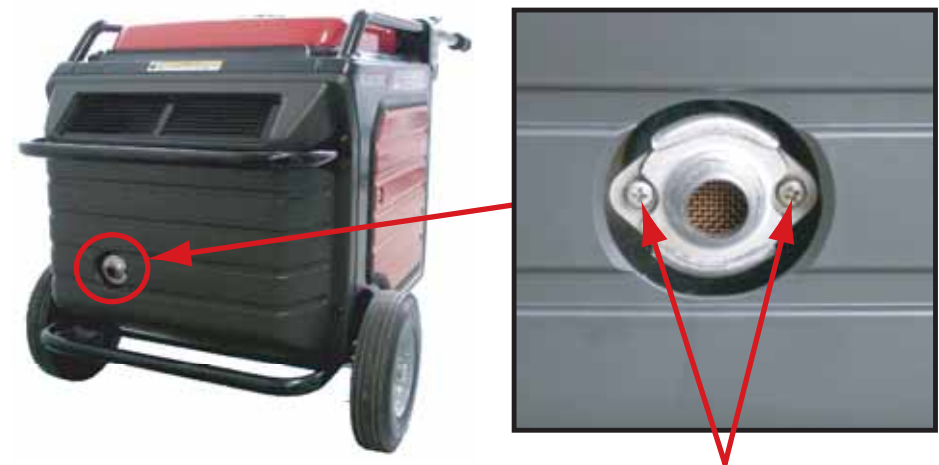
Easy to close/open



【Emergency re-coil starter】



【Easy maintenance spark arrestor】



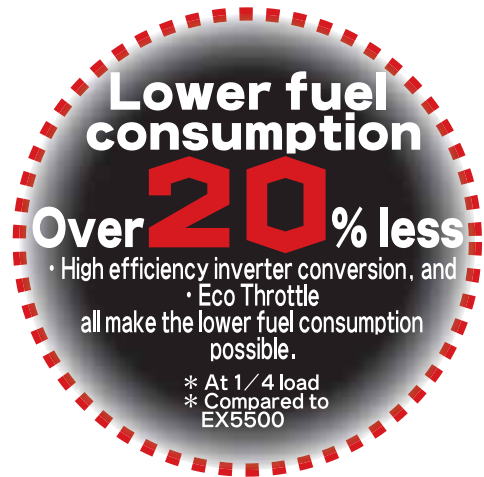
Can be easily removed/installed with a screwdriver without removing the cover

"Super premium Generator EU65is"

"Light weight/compactness" and "Super low noise" attained through our eminent "art"

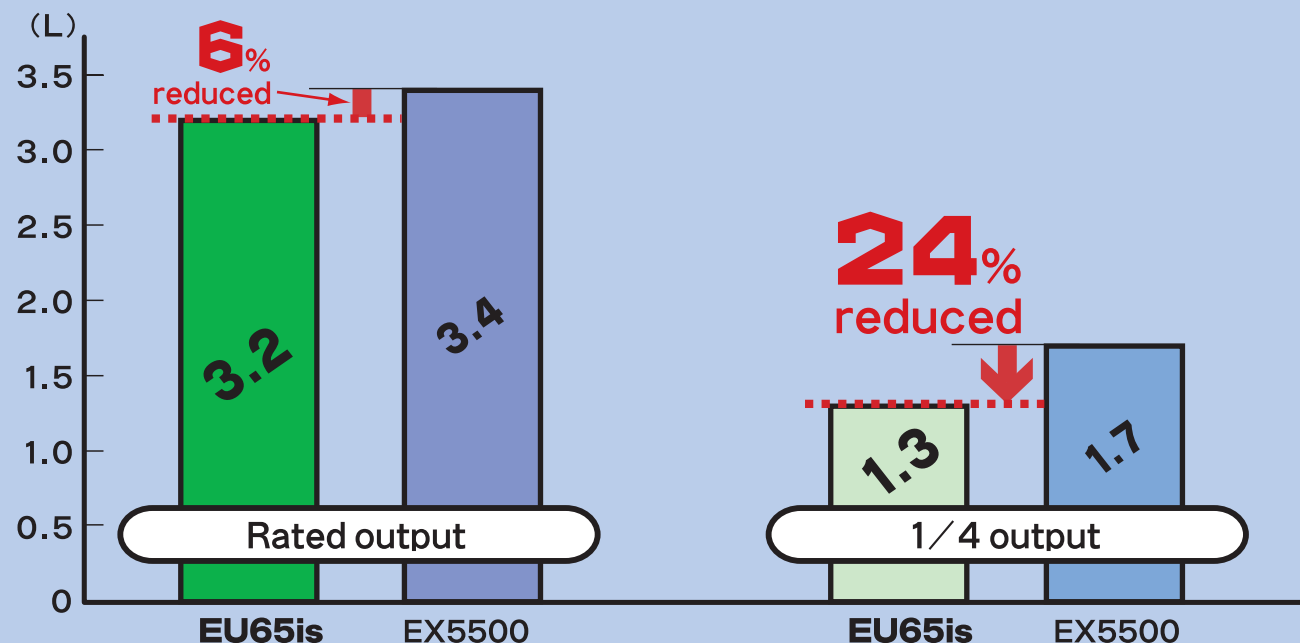


Customer benefit



- **High efficiency inverter conversion...**
Compared to the previous models of inverter and alternator, the internal resistance is reduced and the coil specification is reviewed to further increase the efficiency
- **Eco Throttle...**
Engine speed is automatically controlled to the optimum level that matches the power of the appliance

【Comparison of fuel consumption per one hour】 (by Honda)



"Super premium Generator EU65is"

"Light weight/compactness" and "Super low noise" attained through our eminent "art"



Customer benefit

*** High quality power output**

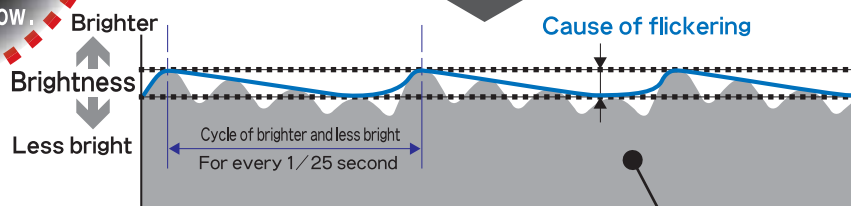
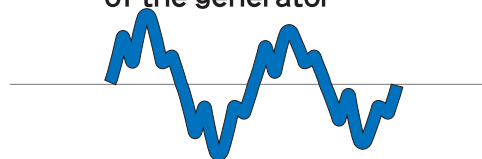
Less than 2.5%

Commercial grade electricity with the waveform distortion factor less than 2.5% and large power is available now.

* High quality electricity

【Output for the AVR type generators】 (by Honda)

Actual output waveform of the generator



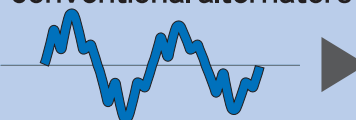
Condition of a fluorescent lamp



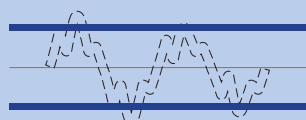
Flickering as power output is not constant!

【Output for the inverter type generators】 (by Honda)

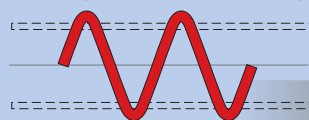
AC waveform of conventional alternators



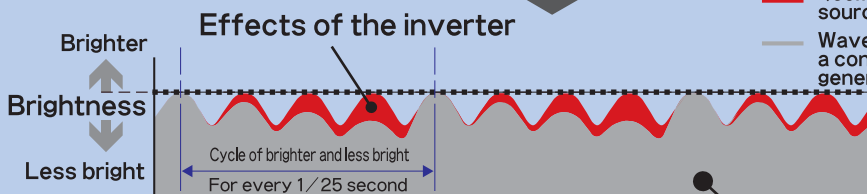
DC



AC (sine waveform)



First converted to DC and then converted again to AC under the control of a computer



Sine waveform (commercial power source/EU series)

Waveform example of a conventional engine generator

Condition of a fluorescent lamp



No flickering thanks to the inverter

"Super premium Generator EU65is"

"Light weight/compactness" and "Super low noise" attained through our eminent "art"



Technical highlights

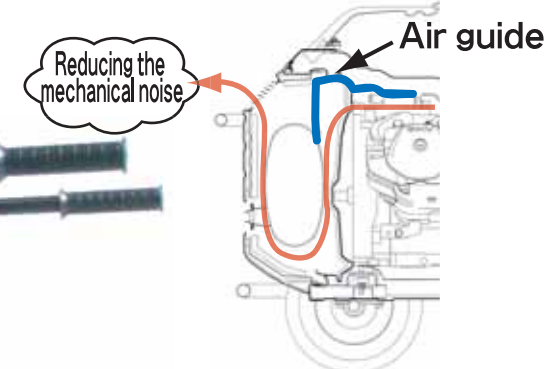
○ Technology to attain low noise: Part 2

Exhaust system

- Larger capacity muffler
- Muffler protector secured to the frame
- The inside of the muffler protector is covered with sound absorbing glass-wool
- Exhaust seal

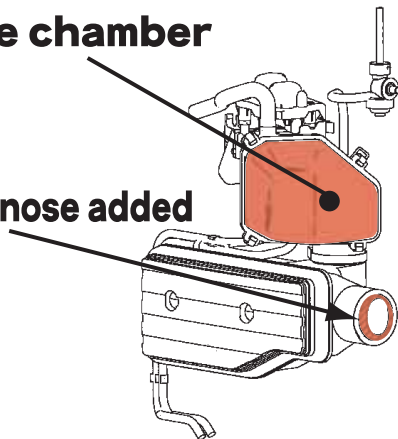
Cooling system

- Air guide is installed between the muffler and the engine



Intake system

- Intake chamber
- Intake nose added



Sealed frame structure

- Rubber seal attached around the fuel tank for sealing off the fuel and reducing the noise
- Seals are also applied to various areas around the maintenance cover

