

General Overview

1. Detail the importance of the launch of the all-new Honda EB10000 generator.

Honda industrial generators have earned a leading reputation in the construction and rental industries for their rugged reliability and outstanding performance. In 2012, Honda expands its Industrial Series generator line with an all-new model – **the EB10000, now the most powerful Honda generator and the company's flagship model.** The launch of this generator reinforces core focus areas of the Honda Power Equipment team: continuous improvement of technology and the integration of innovation into product offerings for customers in both residential and commercial sectors.



The rugged and powerful EB10000 generator, with a maximum output of 10,000 watts, is compact, lightweight and features a narrow-shaped design, a centralized exhaust mechanism, a newly developed alternator, and the best fuel efficiency and lowest noise in its class. Its innovative layout includes a patented frame design that clearly delineates its hot and cool operating parts, along with a one-touch, removable plastic top cover allowing for easy battery access and maintenance. In addition, the Honda EB10000 generator is designed with the *i*-Monitor digital operation system (with lighting), displaying a number of alerts for the operator: total used hours, generating voltage (when error detected), battery condition, Oil Alert®, and an AVR (auto voltage regulator) error code, all of which improve understanding about service and maintenance activities.

2. Provide a listing of top features and benefits for the all-new Honda EB10000 generator.

- New slim design, control panel positioned on the narrow side of the generator, a full frame, and full 8.2 gallon tank with fuel gauge design for added protection and longer run times.
- Power via the Honda GX630 V-Twin Engine; Honda V-Twin engines offer customers more power, adaptability, greater fuel economy and reduced emissions in a more compact package.
- The new Digital Auto Voltage Regulator holds the voltage stable within one percent over time during standard operation. The DAVR adjustments are driven off the main winding versus a sensor winding in conventional AVR systems, with a built-in temperature protection system. The DAVR configuration has a built-in self diagnosis function to prevent abnormal voltage and engine speed from exceeding 4,140 rpm for longer than three seconds. This feature helps to increase the output capacity of the EB10000.
- New positive-lock, folding handle design, lifting eye and wheel kit (can operate over rough surfaces) for improved storing and mobility.
- Newly designed fuel petcock/valve.
- Full ground fault circuit interrupter (GFCI) protection across all outlets.
- OSHA, LA-ETL, CARB, EPA Phase III and USDA compliant.
- The new Honda EB10000 Industrial Series model carries the industry-competitive, Honda three-year warranty.

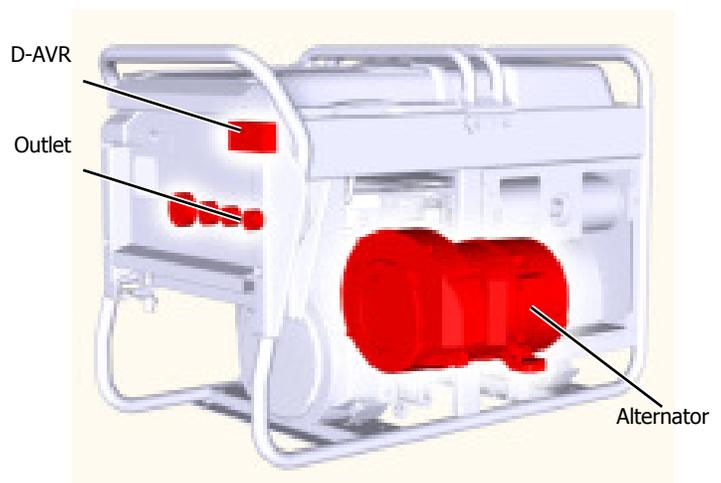
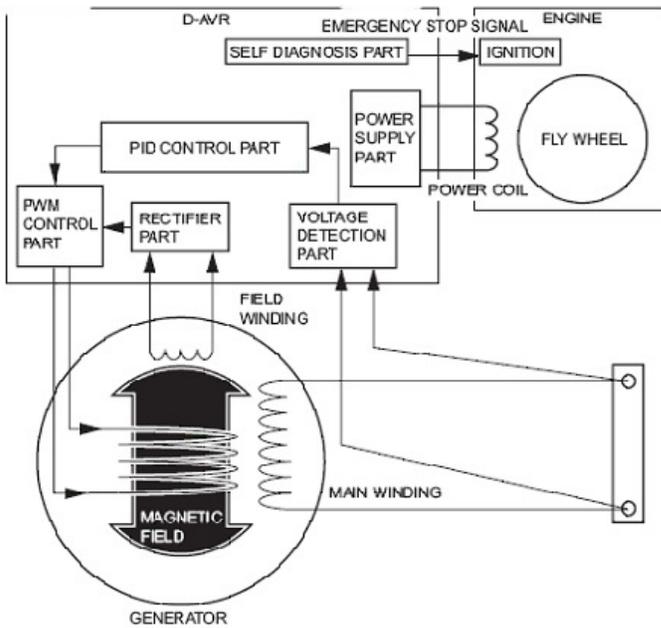


Exclusive Features and Operation

1. Discuss the application of the Honda new Digital Auto Voltage Regulator (DAVR) as part of the all-new Honda EB10000 generator.

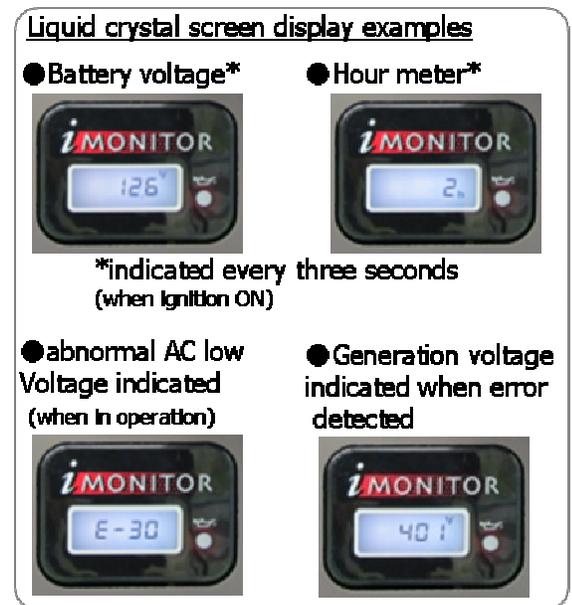
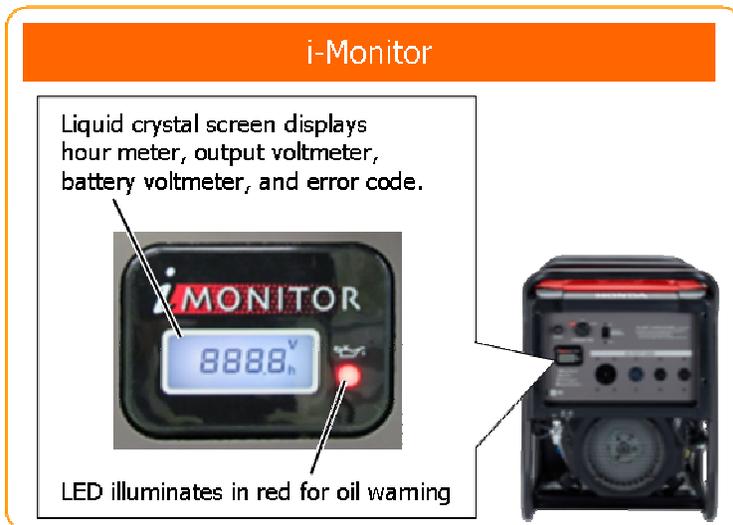
The new Digital Auto Voltage Regulator (DAVR) is an exclusive Honda feature integrated into the design of the company’s all-new EB10000 generator. The DAVR functions to improve the output capability of the new model, holding the voltage stable within one percent over time during standard operation. The DAVR adjustments are driven off the main winding versus a sensor winding in conventional AVR systems, with a built-in temperature protection system. The DAVR configuration has a built-in self diagnosis function to prevent abnormal voltage and engine speed from exceeding 4,140 rpm for longer than three seconds.

A power coil is installed under the flywheel in order to provide a power supply for the DAVR.



2. Describe how the i-Monitor digital operation system and other design elements contribute to ease of operation and maintenance on the all-new Honda EB10000 generator.

The Honda EB10000 generator is designed with the *i-Monitor* digital operation system (with lighting), displaying a number of alerts for the operator: total used hours, generating voltage (when error detected), battery condition, Oil Alert®, and an AVR (auto voltage regulator) error code, all of which improve understanding about service and maintenance activities. The operator can see, at a glance, the state of the conditions being monitored.

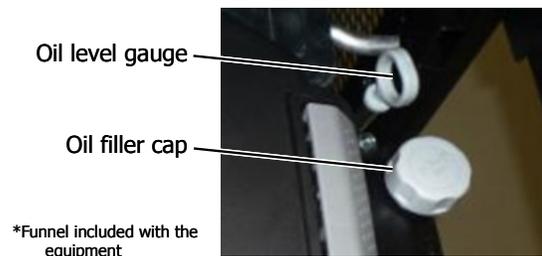


The Honda EB10000 generator also is designed with an easy-to-remove air cleaner and an oil gauge located near the oil filler cap – all elements that allow for ease of maintenance.

- Easily removable air cleaner cover

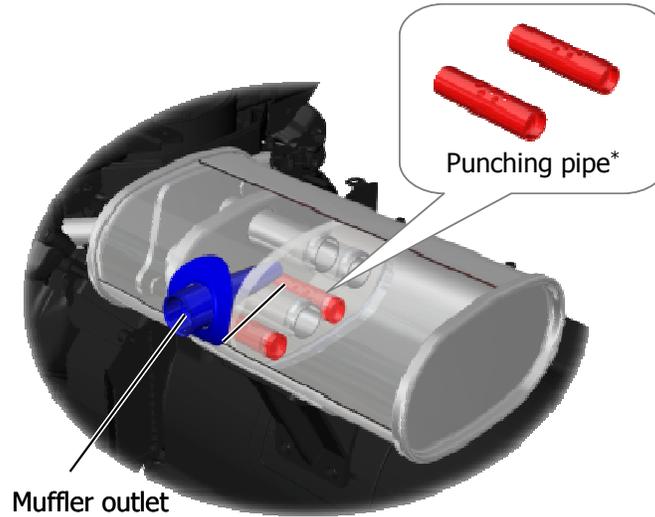


- Oil level gauge positioned near the oil filler cap



3. How does the Honda EB10000 generator achieve lowest operational noise in its class?

The Honda EB10000 generator operates at an extremely quiet noise level – at approximately 72 decibels at 23 feet (equivalent to the noise of a vacuum cleaner). This low noise level is achieved through a large muffler that includes a punching pipe, a perforated mechanism that allows for the smooth release of exhaust gas.



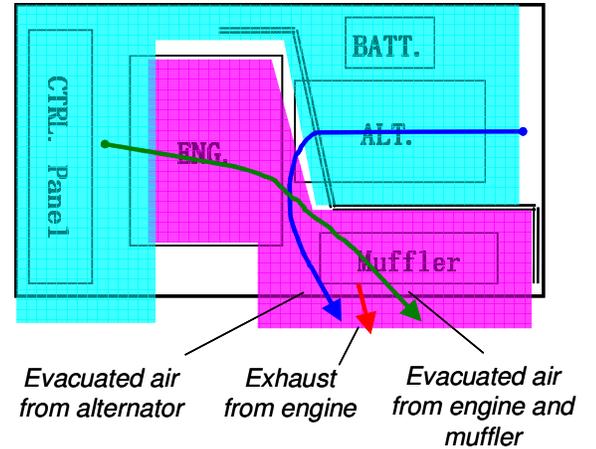
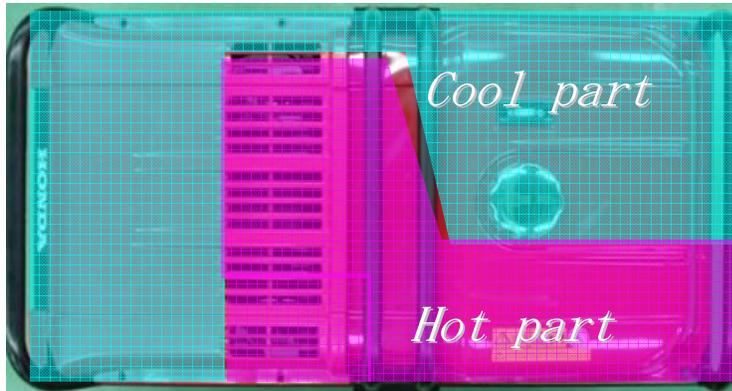
4. Detail the innovative design of the Honda EB10000. How does the footprint of the all-new model save space?

The Honda EB10000 generator is slim in profile and designed with a centralized control panel positioned on the model's narrow end, contributing to ease of operation. The generator also is equipped with folding handles and larger wheels for easy transport.

- Layout centralized for simpler operation: control panel positioned on shorter sides.



The design of the Honda EB10000 also incorporates a clear distinction between its hot and cool operating parts. As the below diagram illustrates, the generator's battery and control panel elements are positioned in the model's cool zone.



Applications and Specifications

4. What are the primary applications for the all-new Honda EB10000 generator?

The EB10000 is well suited for industrial and commercial applications such as construction-related job site work. The generator is also a perfect fit for the rental market, where users demand the most reliable power for a variety of applications.

See the following page for detailed specifications on the new Honda EB10000 and how this all-new model compares to the other Honda EB Industrial Series models – (the EB4000, EB5000 and EB6500).



Industrial Series: Specifications for Honda EB Generator Models

Model Name	EB4000	EB5000	EB6500	EB10000
Dimensions				
Length (inches)	41.1	41.1	41.1	55.9
Width (inches)	27.8	27.8	27.8	27.7
Height (inches)	30.7	30.8	30.9	35.1
Dry Weight (lbs.)	193	224	235	401
Engine Type	Honda iGX270	Honda iGX390	Honda iGX390	Honda GX630
Displacement [cm3]	270	389	389	688
AC Output	4000 Max/3500 Rated	5000 Max/4500 Rated	6500 Max/5000 Rated	10000 Max/9000 Rated
iAVR Output	5000 for up to 10 sec.	7000 for up to 10 sec.	7000 for up to 10 sec.	N/A
Starting Method	Recoil Only	Recoil Only	Recoil Only	Electric Start
Fuel tank capacity	6.2 Gallons	6.2 Gallons	6.2 Gallons	8.2 Gallons
Run Time per Tankful	9.8 hours	8.4 hours	7.0 hours	6.5 hours
Ignition system	Electronic	Electronic	Electronic	D-CDI
Noise level [dB @ 23 ft]	71	72	73	72
Auto Throttle	X	X	X	X
Oil Alert®	X	X	X	X
Circuit Breakers	X	X	X	X
GFCI/neutral bond	X	X	X	X
DAVR	X	X	X	X
Fuel Gauge	X	X	X	X
Wheel Kit Standard	X	X	X	X (with lifting hook)
120/240v Selector Switch	X	X	X	
Full tubing protective frame	X	X	X	X
Hanger Kit/Lifting Eye	X	X	X	X
USDA-qualified spark arrester/muffler	X	X	X	X
Breather Heater (optional part for cold climate operation)				X
New Fuel Petcock	X	X	X	X
Warranty-Residential and Commercial	3 years	3 years	3 years	3 years

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