

2KVA /1.5KW

ESB-R BIO-GENSET

ESB-R BIO-GEN02

ESB-R Biogas gensets (100% BIOGAS) have been meticulously designed to enable you to optimize long-term cost savings and environmental advantages derived from biogas utilization.

Commonly, combustion engines are employed to convert biogas into electricity. Diesel engines can be utilized in dual-fuel mode, where a small amount of diesel is used to assist in the ignition of the biogas.

Turning Waste into Watts: From Field to Fuel

ENERSOL BIOPOWER PVT. LTD.



Designed for home use



ABOUT US

Established in 2013 by Mr. Rai Singh Dahiya, a grassroots innovator in biomass gasifier technology, our company is renowned for its small-size biomass gasifiers, smokeless biomass stoves, and other renewable energy products.





KEY FEATURES

✓ Versatile Product Line

- **Ready-to-Use Units:** Pre-assembled gensets that minimize setup time and effort.
- **Biogas Compatibility:** Designed to operate efficiently using biogas as fuel.

✓ Innovative Design

- **Modern Aesthetics:** Sleek and professional appearance.
- **Space-Saving Size:** Compact design that saves space and cuts installation costs.



✓ Eco-Conscious Operation

- **Environmentally Friendly:** Runs on 100% biogas, contributing to a cleaner environment and reducing carbon emissions.

✓ User-Friendly Maintenance

- **Simplified Design:** Ready-to-use gensets that are easy to install and operate.
- **Ease of Service:** Facilitates routine maintenance, parts replacement, and overhauls.

✓ Superior Performance

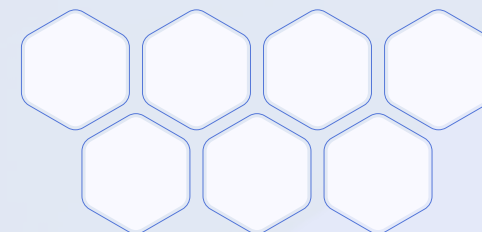
- **Economical Operation:** Lower operating costs enhance overall efficiency and affordability.
- **Reduced Noise and Vibration:** Engineered to operate with minimal noise and vibration.



✓ Exceptional Reliability

- **Dependable Performance:** Ensures continuous power supply for smooth and uninterrupted operations.
- **Safety Mechanisms:** Includes safety features such as low lube oil pressure protection.
- **Designed for Continuous Use:** Suitable for long-term, continuous operation with advanced technology ensuring consistent performance.

In short, the ESB-R 2kVA biogas generator is a reliable, efficient, and eco-friendly power solution designed to meet a variety of customer needs.



TECHNICAL SPECIFICATIONS



PARTICULAR	-	DETAILS
Make	-	Enersol Biopower®
Fuel Mode	-	100% on biogas
Capacity	-	2KVA/1.5KW
Power factor	-	0.8 P.F.
Frequency (Hz)	-	50Hz
Phase	-	Single phase
Rated Current	-	6 Amps /single phase
Voltage (V)	-	220V
Bore x Stroke (mm)	-	70 x 54mm
Max RPM	-	3300 RPM
Lubrication System	-	Dura-Lube Splash Lubrication
Lube Oil Capacity	-	0.60ltr.



Model Name
ESB-R
BIO-GEN02

Starter
12V Starter

Model NO.
ESB-RBG02

Biogas Consumption
2M³ /hr.

Governor
Mechanical

Weight
35kg Approx.

No. of Cylinder
Single Cylinder

Dimension
H15" x W14" x L12"










BIOGAS GENSET PICTURES



OUR PRODUCTS ON














-  <https://www.youtube.com/watch?v=6cYUyY250XE>
-  https://www.youtube.com/watch?v=iyiz_OBGFGw
-  <https://www.youtube.com/watch?v=W9HXk2M-Mgw>
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OUR CLIENTS



AWARDS & EXHIBITIONS



- Fifth National Grassroots Innovation Award, 2009.
- Innovation Scholars In-residence Program at President House.
- Indian Merchant Chamber (IMC) – Inclusive Innovation Award, 2012.
- Certificate of Appreciation As “Farmer Scientist” By Rajasthan University of Veterinary & Animal Sciences, Bikaner, Rajasthan.
- Certificate of “Farmer Scientist” By Pacific University, Udaipur, Rajasthan.
- Certificate from Department of Science & Technology at National Science Day, Jaipur, Rajasthan.
- Business Expo Kota 2023, Kota, Rajasthan.
- Exhibition of Innovations, President House, 2010
- Inauguration of ESB-R Biomass gasifier by former chief minister of Meghalaya, 2013
- Third international conference on creativity & innovations at grassroots at Indian institute of management (IIM), Ahmedabad, 2015
- India International Science Festival (IISF), New Delhi, 2016.
- India International Trade Fair (IITF), New Delhi, 2016.
- Mega Science & Technology and Industry Expo, New Delhi, 2017





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YouTube

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