

Biomass Gasification Power Generation System

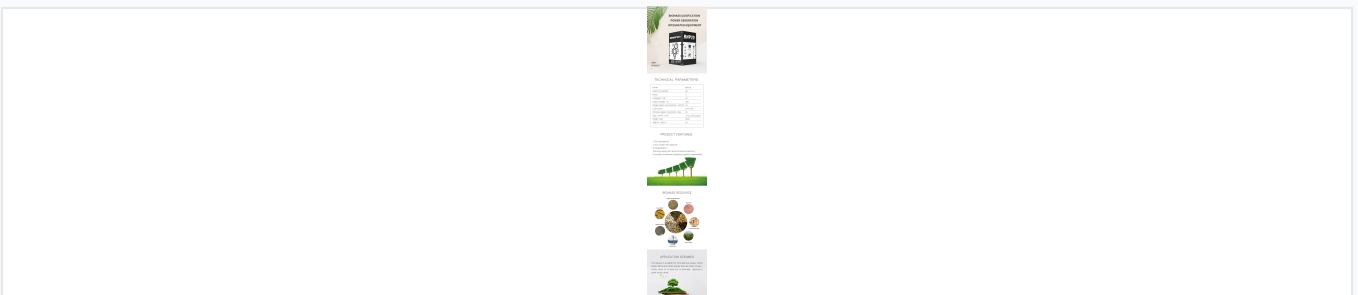
This integrated system efficiently converts biomass into electricity through gasification. The system integrates gasification, gas cleaning, and power generation into a single unit, optimizing energy conversion and reducing emissions.



ADDITIONAL IMAGES



Overview



Integrated system designed for efficient biomass-to-energy conversion in remote locations.

Integrated Biomass Power Solution

This biomass gasification power generation unit is an advanced, fully automated system designed to convert agricultural and forestry waste into reliable electricity. By integrating gasification, gas cleaning, and power generation into a single compact structure, it offers a sustainable energy solution for areas with abundant biomass resources but limited infrastructure. It is highly versatile, serving as a practical tool for lighting and powering small motors in remote or agricultural settings.

Technical Specifications

Performance Metrics

20 kW

Electric Power

50 Hz

Frequency

400 V

Output Voltage

67 dB(A)

Noise Level

Physical Dimensions & Weight

Parameter	Value
Weight	2000 kg
Dimensions (LxWxH)	1910x1910x3000 mm

Operational Parameters

- Phase: 3
- Load Scope: 20-110%
- Biomass Design Consumption: 25 kg
- Biogas Design Consumption: 54 m3/hr

Application & Features

System Highlights

Full automation • Cogeneration • Waste-to-energy • Environmentally friendly • Compact design

Compatible Biomass Resources

Sugar cane residue, Crop stalk, Sawdust, Herbal leaves, Wood shavings, Branches, Corn stalk