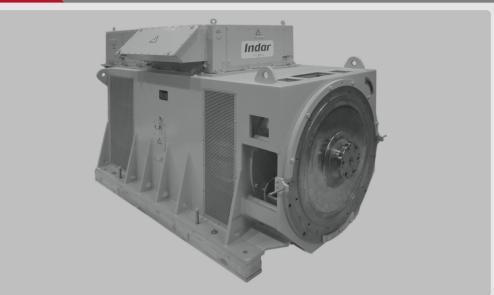
INDAR



Main features

Synchronous Generators Driven by Gas Turbines





The INDAR SGG generator series (driven by gas turbines) is characterised by its adaptability to each manufacturer's standards, offering close couple gearbox or standalone gearbox variants.

Applications:

Biomass, Cogeneration, Combined Cycled Plant, Thermal Solar, Waste to Energy Plant

- · Independent power producers (IPP)
- · Public and municipal services: Hospitals, universities and other building complexes
- · Industry:
- · Chemical
- · Wood and paper
- · Steel mills and the steel industry
- · Food
- · Petrochemical / refineries
- · Processing industry, pump manufacturers and compressors

Procedure

IEC 60034-4

IFC 60034-8 IEC 60034-1 IEC 60034-29

IFC 60034-4

IFC 60034-2-1

· Sugar and palm oil

Direct-current windings resistance measurement at cold condition

No-load saturation test (open circuit saturation curve)

Iron losses measurement

at no-load

Phase sequence check

Temperature rise test

Main reatures	ას ს
Power Excitation Speed Voltage Temperature Rise Class Thermal Insul. Class	From 1,250 kVA up to 60,000 kVA Brushless or with direct excitation (with brushes) 4 poles; max. speed ≤ 1,800 rpm Up to 15 kV F (155 °C) / B (130 °C) Up to class H (180 °C)
Construction Protection degree (IEC 60034-5) Cooling (IEC 60034-6) Bearings Types of atmosphere	Horizontal Up to IP56 IC01, IC11, IC21, IC31, IC06, IC16, IC26, IC36, IC17, IC27, IC37, IC81W, IC86W, IC611, IC616, IC661 and IC666 With anti-friction bearings or sleeve bearings Only safe areas
Main options	AVRs, lubrication sets, hydrostatic sets, special sensors (vibrations, temperature, speed, etc.), transformers

Our machines are designed, manufactured and tested according to the criteria and standards of the International Electrotechnical Commission (IEC). Additionally, we can design and manufacture in accordance with other standards (IEEE, NEMA, VDE, etc.). Indar's SG series generators adapt to the requirements established by the various Classification Societies for marine application. In the case of machines connected to the main grid, they are designed according the legislation in force in each country, as regards electrical grid connection in terms of voltage drops.



Overspeed test IEC 60034-1 Withstand voltage test (High voltage dielectric test) IEC 60034-1 Insulation resistance and polarization index measurement IEEE Std 43 Noise level test

IEC 60034-9 ISO 3746 Reactances & time constants det. IEC 60034-4































