



Category: Power Generators

Caterpillar CG170B-20 - Gas Power Generator (50 Hz, 2300 ekW / 2300 kVA @ 1.0 PF)

Caterpillar CG170B-20 Gas Generator

Ratings & Electrical

- **Continuous Rating:** 2300 ekW / 2300 kVA @ 1.0 PF
- **Frequency:** 50 Hz
- **Voltage:** 400/230 V (3-phase)
- **Maximum Electrical Efficiency:** 45.0%
- **Alternator Insulation:** Class H
- **Voltage Regulation:** $\pm 1\%$

Engine / Mechanical

- **Engine Model:** CAT CG170B-20 Gas Engine
- **Configuration:** 4-stroke, 20-cylinder, V-type, turbocharged & aftercooled

- **Displacement:** 64.0 L

Fuel & Consumption

- **Fuel Type:** Supports multiple gas types:
 - Natural Gas
 - Biogas
 - Coal Gas
 - Hydrogen Blend (up to 25%)
- **Fuel Consumption @100% Load:** ~2250-2300 m³/h (depending on gas type)

Cooling, Exhaust & Air

- **Cooling System:** Radiator-cooled, tropical rating
- **Exhaust Gas Temperature:** ~550-600 °C
- **Exhaust Gas Flow:** ~150-160 m³/min

Physical Dimensions & Weight

- **Dimensions (L × W × H):** ~7500 mm × 2500 mm × 3000 mm
- **Weight (approx.):** ~21000 kg (open set)

Alternator & Control

- **Alternator Frame:** Caterpillar or equivalent, Class H insulation
- **Control Panel:** Caterpillar electronic controller
- **Features:** Monitoring, protection & optional auto-start/stop