



Category: Power Generators

Caterpillar D100 GC - C4.4 Diesel Power Generator

Caterpillar D100 GC Diesel Generator

Ratings & Electrical

• Prime Power: 91 kVA / 73 kW

• Standby Power: 100 kVA / 80 kW

• Frequency: 50 Hz

• **Speed:** 1500 rpm

• Voltage: 400/230 V (3-phase)

• Power Factor: 0.8 (lagging)

• Alternator Insulation: Class H

 \bullet Voltage Regulation: $\pm 1\%$

Engine / Mechanical

• Engine Model: CAT C4.4 Diesel Engine

• Configuration: 4-stroke, 4-cylinder, inline, turbocharged & aftercooled

• Displacement: 4.4 L

• Bore × Stroke: 105 mm × 127 mm

• Compression Ratio: 17.5:1

• Lubricating Oil Capacity: ~18 L

• Coolant Capacity: ~25 L

Fuel & Consumption

• Fuel Type: Diesel

• Fuel Consumption @100% Load: ~22 L/h

• Fuel Consumption @75% Load: ~16 L/h

• Fuel Tank Capacity: ~180 L (typical enclosure)

Cooling, Exhaust & Air

• Exhaust Gas Temperature: ~550 °C

• Exhaust Gas Flow: ~6 m³/min

• Max Exhaust Back Pressure: 10 kPa

• Cooling System: Radiator-cooled, tropical rating

Physical Dimensions & Weight

- **Dimensions (L × W × H):** ~2200 mm × 1000 mm × 1400 mm
- Weight (approx.): ~820 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