



Category: Power Generators

Caterpillar DE550 GC - C18 Diesel Power Generator

Caterpillar DE550 GC Diesel Generator

Ratings & Electrical

- **Prime Power:** 500 kVA / 400 kW
- **Standby Power:** 550 kVA / 440 kW
- **Frequency:** 50 Hz
- **Speed:** 1500 rpm
- **Voltage:** 400/230 V (3-phase)
- **Power Factor:** 0.8 (lagging)
- **Alternator Insulation:** Class H
- **Voltage Regulation:** $\pm 1\%$

Engine / Mechanical

- **Engine Model:** CAT C18 Diesel Engine
- **Configuration:** 4-stroke, 6-cylinder, inline, turbocharged & aftercooled
- **Displacement:** 18.1 L
- **Bore × Stroke:** 145 mm × 173 mm
- **Compression Ratio:** 16.0 : 1
- **Lubricating Oil Capacity:** ~80 L
- **Coolant Capacity:** ~100 L

Fuel & Consumption

- **Fuel Type:** Diesel
- **Fuel Consumption @100% Load:** ~250 L/h
- **Fuel Consumption @75% Load:** ~188 L/h
- **Fuel Tank Capacity:** ~1200 L (typical enclosure)

Cooling, Exhaust & Air

- **Exhaust Gas Temperature:** ~730 °C
- **Exhaust Gas Flow:** ~42 m³/min
- **Max Exhaust Back Pressure:** 10 kPa
- **Cooling System:** Radiator-cooled, tropical rating

Physical Dimensions & Weight

- **Dimensions (L × W × H):** ~4100 mm × 1850 mm × 2350 mm
- **Weight (approx.):** ~5200 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