



Category: Power Generators

Caterpillar C175-20 - Diesel Power Generator (50 Hz, 3900-4000 kVA)

Caterpillar C175-20 Diesel Generator

Ratings & Electrical

• Prime Power: 3120 kVA / 2496 kW (with fan)

• Standby Power: 3900 kVA / 3120 kW (with fan)

• Prime Power: 3200 kVA / 2560 kW (without fan)

• Standby Power: 4000 kVA / 3200 kW (without fan)

• Frequency: 50 Hz

• **Speed:** 1500 rpm

• **Voltage:** 400/230 V (3-phase)

• Power Factor: 0.8 (lagging)

• Alternator Insulation: Class H

• Voltage Regulation: ±1%

Engine / Mechanical

• Engine Model: CAT C175-20 Diesel Engine

• Configuration: 4-stroke, 20-cylinder, V-type, turbocharged & aftercooled

• Displacement: 250 L

• Bore x Stroke: 175 mm x 220 mm

• Compression Ratio: 13.5:1

• Lubricating Oil Capacity: ~2200 L

• Coolant Capacity: ~1500 L

Fuel & Consumption

• Fuel Type: Diesel

• Fuel Consumption @100% Load: ~1400-1450 L/h

• Fuel Consumption @75% Load: ~1050-1100 L/h

• Fuel Tank Capacity: ~15000 L (typical enclosure)

Cooling, Exhaust & Air

• Exhaust Gas Temperature: ~750-800 °C

• Exhaust Gas Flow: ~350-380 m³/min

• Max Exhaust Back Pressure: 10 kPa

• Cooling System: Radiator-cooled (with fan) / optional air-cooled (without fan), tropical rating

Physical Dimensions & Weight

- **Dimensions (L × W × H):** ~9000 mm × 3200 mm × 4000 mm
- Weight (approx.): ~38000-40000 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