



**Category: Power Generators** 

Caterpillar C175-16 - Diesel Power Generator (50 Hz, 3000 kVA)

# Caterpillar C175-16 Diesel Generator

## **Ratings & Electrical**

• Prime Power: 2400 kVA / 1920 kW

• Standby Power: 3000 kVA / 2400 kW

• 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 C175-16 Diesel Engine

• Configuration: 4-stroke, 16-cylinder, V-type, turbocharged & aftercooled

• Displacement: 175 L

• Bore × Stroke: 175 mm × 220 mm

• Compression Ratio: 13.5:1

• Lubricating Oil Capacity: ~1800 L

• Coolant Capacity: ~1200 L

### **Fuel & Consumption**

• Fuel Type: Diesel

• Fuel Consumption @100% Load: ~1100-1150 L/h

• Fuel Consumption @75% Load: ~820-870 L/h

• Fuel Tank Capacity: ~12000 L (typical enclosure)

### Cooling, Exhaust & Air

• Exhaust Gas Temperature: ~700-750 °C

• Exhaust Gas Flow: ~320-350 m³/min

• Max Exhaust Back Pressure: 10 kPa

• Cooling System: Radiator-cooled, tropical rating

# **Physical Dimensions & Weight**

- **Dimensions (L × W × H):** ~8500 mm × 3000 mm × 3700 mm
- Weight (approx.): ~32000 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