



Category: Power Generators

Caterpillar 3412C - Diesel Power Generator (50 Hz, 900 kVA)

Caterpillar 3412C Diesel Generator

Ratings & Electrical

- **Maximum Rating:** 900 kVA
- **Minimum Rating:** 810 kVA
- **Frequency:** 50 Hz
- **Voltage:** 400/230 V (3-phase)
- **Power Factor:** 0.8 (lagging)
- **Emissions / Fuel Strategy:** Low Fuel Consumption
- **Alternator Insulation:** Class H
- **Voltage Regulation:** $\pm 1\%$

Engine / Mechanical

- **Engine Model:** CAT 3412C Diesel Engine
- **Configuration:** 4-stroke, 12-cylinder, V-type, turbocharged & aftercooled
- **Displacement:** 38.6 L

Fuel & Consumption

- **Fuel Type:** Diesel
- **Fuel Consumption @100% Load:** ~210-230 L/h

Cooling, Exhaust & Air

- **Cooling System:** Radiator-cooled, tropical rating
- **Exhaust Gas Temperature:** ~500-550 °C
- **Exhaust Gas Flow:** ~45-50 m³/min

Physical Dimensions & Weight

- **Dimensions (L × W × H):** ~5200 mm × 2100 mm × 2300 mm
- **Weight (approx.):** ~10500 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