

Category: Power Generators

Cummins C500D5 QSZ13-G5 500 kVA Diesel Generator

Ratings & Electrical

- Prime Power: 400 kW / 500 kVA
- Standby Power: ~440 kW / 550 kVA
- 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: Cummins QSZ13-G5

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- Configuration: 4-stroke, 6-cylinder, inline, turbocharged & aftercooled
- Displacement: 13 L
- Bore × Stroke: 135 mm × 160 mm
- Compression Ratio: 16.0 : 1
- Lubricating Oil Capacity: ~75 L
- Coolant Capacity: ~90 L

Fuel & Consumption

- Fuel Type: Diesel
- Fuel Consumption @100% Load: ~180 L/h
- Fuel Consumption @75% Load: ~135 L/h
- Fuel Tank Capacity: ~1400 L (typical enclosure)

Cooling, Exhaust & Air

- Exhaust Gas Temperature: ~580 °C
- Exhaust Gas Flow: ~50 m³/min
- Max Exhaust Back Pressure: 10 kPa
- Cooling System: Radiator-cooled, tropical rating

Physical Dimensions & Weight

- Dimensions (L × W × H): ~4400 mm × 2000 mm × 2500 mm
- Weight (approx.): ~5000 kg (open set)

Alternator & Control

- Alternator Frame: Stamford or equivalent, Class H insulation
- Control Panel: Cummins/DeepSea electronic controller
- Features: Monitoring, protection & optional auto-start/stop

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