



Category: Power Generators

Cummins C810D5P KTA38-G12 810 kVA Diesel Generator

Ratings & Electrical

- Prime Power: 648 kW / 810 kVA
- Standby Power: ~712 kW / 890 kVA
- 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: Cummins KTA38-G12

- Configuration: 4-stroke, 12-cylinder, inline, turbocharged & aftercooled
- Displacement: 38 L
- Bore × Stroke: 159 mm × 159 mm
- Compression Ratio: 16.0 : 1
- Lubricating Oil Capacity: ~260 L
- Coolant Capacity: ~310 L

Fuel & Consumption

- Fuel Type: Diesel
- Fuel Consumption @100% Load: ~370 L/h
- Fuel Consumption @75% Load: ~278 L/h
- Fuel Tank Capacity: ~3100 L (typical enclosure)

Cooling, Exhaust & Air

- Exhaust Gas Temperature: ~625 °C
- Exhaust Gas Flow: ~90 m³/min
- Max Exhaust Back Pressure: 10 kPa
- Cooling System: Radiator-cooled, tropical rating

Physical Dimensions & Weight

- Dimensions (L × W × H): ~6300 mm × 2500 mm × 3200 mm
- Weight (approx.): ~13000 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