



Category: Power Generators

Cummins C1800D5P KTA50-GS8 1800 kVA Power Generator

Ratings & Electrical

- Prime Power: 1440 kW / 1800 kVA
- Standby Power: ~1584 kW / 1980 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 KTA50-GS8

- Configuration: 4-stroke, 16-cylinder, inline, turbocharged & aftercooled
- Displacement: 50 L
- Bore × Stroke: 159 mm × 159 mm
- Compression Ratio: 16.0 : 1
- Lubricating Oil Capacity: ~480 L
- Coolant Capacity: ~580 L

Fuel & Consumption

- Fuel Type: Diesel
- Fuel Consumption @100% Load: ~740 L/h
- Fuel Consumption @75% Load: ~555 L/h
- Fuel Tank Capacity: ~4800 L (typical enclosure)

Cooling, Exhaust & Air

- Exhaust Gas Temperature: ~680 °C
- Exhaust Gas Flow: ~160 m³/min
- Max Exhaust Back Pressure: 10 kPa
- Cooling System: Radiator-cooled, tropical rating

Physical Dimensions & Weight

- Dimensions (L × W × H): ~8200 mm × 3200 mm × 4100 mm
- Weight (approx.): ~26000 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