



Category: Power Generators

Cummins C100D5P 6BTAA5.9-G13 100 kVA Power Generator

Ratings & Electrical

- Prime Power: 80 kW / 100 kVA
- Standby Power: ~88 kW / 110 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 6BTAA5.9-G13
- Configuration: 4-stroke, 6-cylinder, inline, turbocharged & aftercooled

- Displacement: 5.9 L
- Bore × Stroke: 102 mm × 120 mm
- Compression Ratio: 17.3 : 1
- Lubricating Oil Capacity: ~15 L
- Coolant Capacity: ~25 L

Fuel & Consumption

- Fuel Type: Diesel
- Fuel Consumption @100% Load: ~28 L/h
- Fuel Consumption @75% Load: ~21 L/h
- Fuel Tank Capacity: ~300 L (typical enclosure)

Cooling, Exhaust & Air

- Exhaust Gas Temperature: ~480 °C
- Exhaust Gas Flow: ~13 m³/min
- Max Exhaust Back Pressure: 10 kPa
- Cooling System: Radiator-cooled, tropical rating

Physical Dimensions & Weight

- Dimensions (L × W × H): ~2500 mm × 1100 mm × 1500 mm
- Weight (approx.): ~1400 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