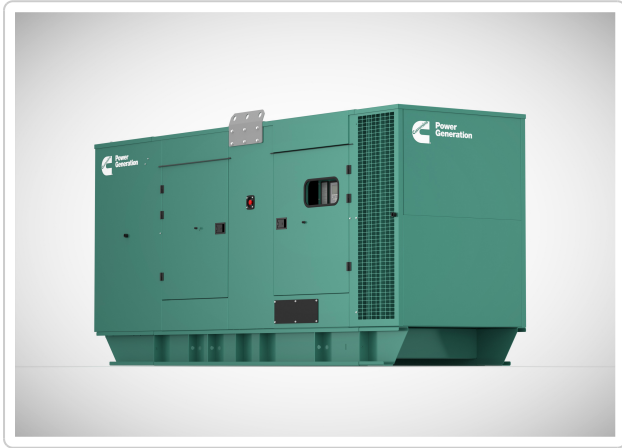




Category: Power Generators

Cummins C82.5D5P Diesel Generator – Technical Specifications (? 82.5 kVA Class)

Ratings / Electrical

Cummins C82.5D5P 4BTAA3.9-G4 82.5 kVA Power Generator

Ratings & Electrical

- Prime Power: 66 kW / 82.5 kVA
- Standby Power: ~72 kW / 90 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 4BTAA3.9-G4
- Configuration: 4-stroke, 4-cylinder, inline, turbocharged & aftercooled
- Displacement: 3.9 L
- Bore $\times$ Stroke: 102 mm $\times$ 120 mm
- Compression Ratio: 17.2 : 1
- Lubricating Oil Capacity: ~ 8 L
- Coolant Capacity: ~ 15 L

Fuel & Consumption

- Fuel Type: Diesel
- Fuel Consumption @100% Load: ~ 20 L/h
- Fuel Consumption @75% Load: ~ 15 L/h
- Fuel Tank Capacity: ~ 250 L (typical enclosure)

Cooling, Exhaust & Air

- Exhaust Gas Temperature: ~ 465 °C
- Exhaust Gas Flow: ~ 11 m³/min
- Max Exhaust Back Pressure: 10 kPa
- Cooling System: Radiator-cooled, tropical rating

Physical Dimensions & Weight

- Dimensions (L $\times$ W $\times$ H): ~ 2300 mm $\times$ 1050 mm $\times$ 1450 mm
- Weight (approx.): ~ 1150 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

Print

- **Prime (Continuous) Power:** 82.5 kVA / 66 kW
- **Standby / Maximum Power:** ~90.75 kVA
- **Phase / Voltage:** 3-phase, 230/400 V (options: 380–415 V)
- **Frequency & Speed:** 50 Hz, 1500 RPM
- **Power Factor:** 0.8 (lagging)

Engine & Mechanical

- **Engine Model:** Cummins 4BTAA3.9-G4
- **Number of Cylinders:** 4, inline
- **Displacement:** 3.9 L
- **Bore × Stroke:** 102 mm × 120 mm
- **Compression Ratio:** ~18:1
- **Cooling System:** Liquid cooled
- **Starting System:** Electric, 12 V DC

Fuel & Consumption

- **Fuel Consumption @ 75% Load:** ~15.2–15.7 L/h
- **Fuel Consumption @ 100% Load:** ~20.3–20.9 L/h

Capacities

- **Lubricating Oil Capacity:** ~16 L
- **Coolant Capacity:** ~19 L

Physical & Acoustic

- **Dry Weight (with Canopy):** ~1,915 kg
- **Genset Dimensions (L × W × H, with enclosure):** ~3,850 × 1,150 × 1,700 mm
- **Fuel Tank (Standard):** ~145 L
- **Noise Level:** ~75 dB(A) at 1 m (75% load)

Alternator & Control

- **Alternator Model:** Stamford UCI224G (or equivalent)
- **Insulation Class:** H

- Enclosure / Protection: IP23 (typical open set spec)

Other Notes

- Designed and certified to ISO standards (e.g., ISO 8528-5)
- Suitable for tropical and harsh climates (ambient up to ~50 °C)

Ahtsham Saeed Trading LLC
Ahtsham Saeed Trading LLC
Ahtsham Saeed Trading LLC