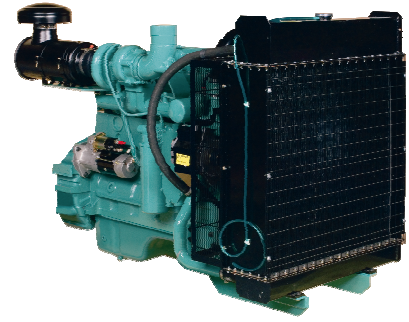


6CTAA8.3-G3



> Specification sheet

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Description

C-Series engines have established an unrivalled reputation for reliability. Engines in the series incorporate features to reduce maintenance and enhance performance in order to meet the most demanding requirements of generator set operation.



This engine has been built to comply with CE certification.



This engine has been designed in facilities certified to ISO9001 and manufactured in facilities certified to ISO9001 or ISO9002.

Features

Single Poly Vee belt drive for fan, alternator and water pump, with self-tensioning idler for minimum maintenance.

Inline-type Bosch P-Series pump operates at high injection pressures for cleaner combustion and lower emissions.

Spin-on fuel filter and full-flow lubricating oil filter.

Top mounted Holset HX40W turbo-charger for increased power, fuel economy, and lower smoke and noise levels.

Coolpac Integrated Design - Products are supplied complete with cooling package and air cleaner kit for a complete power package. Each component has been specifically developed and rigorously tested for G-Drive products, ensuring high performance, durability and reliability.

Service and Support - G-Drive products are backed by an uncompromising level of technical support and after sales service, delivered through a world class service network.

1500 rpm (50 Hz Ratings)

| Gross Engine Output | | | Net Engine Output | | | Typical Generator Set Output | | | | | |
|---------------------|---------|---------|-------------------|---------|---------|------------------------------|-----|-------------|-----|------------|-----|
| Standby | Prime | Base | Standby | Prime | Base | Standby (ESP) | | Prime (PRP) | | Base (COP) | |
| kWm/BHP | | | kWm/BHP | | | kWe | kVA | kWe | kVA | kWe | kVA |
| 203/272 | 183/245 | 149/200 | 191/256 | 173/232 | 139/232 | 176 | 220 | 160 | 200 | 120 | 150 |

1800 rpm (60 Hz Ratings)

| Gross Engine Output | | | Net Engine Output | | | Typical Generator Set Output | | | | | |
|---------------------|---------|---------|-------------------|---------|---------|------------------------------|-----|-------------|-----|------------|-----|
| Standby | Prime | Base | Standby | Prime | Base | Standby (ESP) | | Prime (PRP) | | Base (COP) | |
| kWm/BHP | | | kWm/BHP | | | kWe | kVA | kWe | kVA | kWe | kVA |
| 237/316 | 213/285 | 175/235 | 221/296 | 200/268 | 162/217 | 200 | 250 | 182 | 228 | 144 | 180 |

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General Engine Data

| | |
|-----------------------------|---|
| Type | 4 cycle, in-line, Turbo Charged |
| Bore mm | 114 mm (4.49 in.) |
| Stroke mm | 135 mm (5.32 in.) |
| Displacement Litre | 8.3 litre (505.0 in. ³) |
| Cylinder Block | Cast iron, 6 cylinder |
| Battery Charging Alternator | 60 amps |
| Starting Voltage | 24 volt, negative ground |
| Fuel System | Direct injection |
| Fuel Filter | Spin-on fuel filters with water separator |
| Lube Oil Filter Type(s) | Spin-on full flow filter |
| Lube Oil Capacity (l) | 23.8 |
| Flywheel Dimensions | 2/11.5 |

Coolpac Performance Data

| | |
|---|--|
| Cooling System Design | Air-Air Charge Cooled |
| Coolant Ratio | 50% ethylene glycol; 50% water |
| Coolant Capacity (l) | 12.0 |
| Limiting Ambient Temp.** | 48.0 |
| Fan Power | 1.3 |
| Cooling System Air Flow (m ³ /s)** | 48.0 |
| Air Cleaner Type | Dry replaceable element with restriction indicator |

** @ 13 mm H₂O

Weight & Dimensions

| Length | Width | Height | Weight (dry) |
|--------|-------|--------|--------------|
| mm | mm | mm | kg |
| 1440 | 910 | 1240 | 794 |

Fuel Consumption 1500 (50 Hz)

| % | kWm | BHP | L/ph | US gal/ph |
|-------------------------|-----|-----|------|-----------|
| Standby Power | | | | |
| 100 | 203 | 272 | 51 | 13.5 |
| Prime Power | | | | |
| 100 | 183 | 245 | 46 | 12 |
| 75 | 137 | 184 | 34 | 9 |
| 50 | 91 | 123 | 23 | 6 |
| 25 | 46 | 61 | 12 | 3.3 |
| Continuous Power | | | | |
| 100 | 149 | 200 | 36 | 9.6 |

Fuel Consumption 1800 (60 Hz)

| % | kWm | BHP | L/ph | US gal/ph |
|-------------------------|-----|-----|------|-----------|
| Standby Power | | | | |
| 100 | 237 | 317 | 64 | 16.8 |
| Prime Power | | | | |
| 100 | 213 | 285 | 56 | 14.8 |
| 75 | 160 | 214 | 41 | 10.9 |
| 50 | 106 | 143 | 28 | 7.3 |
| 25 | 53 | 71 | 15 | 4 |
| Continuous Power | | | | |
| 100 | 175 | 235 | 44 | 11.6 |

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Ratings Definitions

Emergency Standby Power (ESP):

Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

Limited-Time Running Power (LTP):

Applicable for supplying power to a constant electrical load for limited hours. Limited-Time Running Power (LTP) is in accordance with ISO 8528.

Prime Power (PRP):

Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

Base Load (Continuous) Power (COP):

Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) in accordance with ISO 8528, ISO 3046, AS 2789, DIN6271 and BS 5514.

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