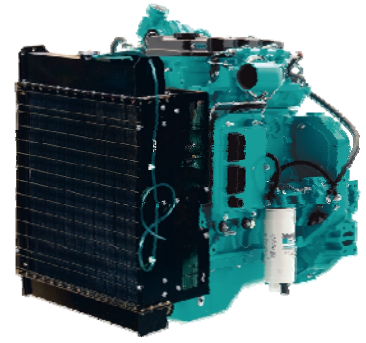


QSB5-G1

Emissions Compliance:
EU Stage IIIA at 50 Hz
EPA Tier 3 at 60 Hz



> Specification sheet

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Description

The QSB5 incorporates the latest diesel engine technology, including a high pressure common rail fuel system for greater fuel efficiency, lower noise and reduced emissions.



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

Full-Authority Electronic Controls - Optimize engine operation and deliver critical information for controlling costs, reducing maintenance and seamless integration with other components.

Holset HX35 Wastegated Turbo - Wastegated design optimizes transient response.

Low-Maintenance Fuel Filter Assembly - The fuel filter incorporates an integral water separator and water-in-fuel sensor; 500-hour filter life with easy top-load replacement using standard Fleetguard® filters.

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 |
| 75/100 | 65/87 | 59/79 | 67/90 | 58/78 | 52/70 | 56 | 70 | 50 | 63 | 49 | 61 |

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 |
| 88/118 | 74/99 | 68/91 | 76/102 | 63/84 | 57/76 | 60 | 75 | 55 | 69 | 53 | 66 |

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General Engine Data

| | |
|-----------------------------|---|
| Type | 4-Cycle, in-line, 4-cylinder diesel |
| Bore mm | 107 mm (4.21 in.) |
| Stroke mm | 124 mm (4.88 in.) |
| Displacement Litre | 4.5 litre (275 in. ³) |
| Cylinder Block | Cast iron, 4 cylinder |
| Battery Charging Alternator | 100 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) | 12.2 |
| Flywheel Dimensions | SAE3 |

Coolpac Performance Data

| | |
|---|--|
| Cooling System Design | Air-Air Charge Cooled |
| Coolant Ratio | 50% ethylene glycol; 50% water |
| Coolant Capacity (l) | 25.0 |
| Limiting Ambient Temp.** | 50.0 |
| Fan Power (units) kWm | 5.5 (50 Hz); 9.5 (60 Hz) |
| Cooling System Air Flow (m ³ /s)** | 1.7 (50 Hz); 2.2 (60 Hz) |
| Air Cleaner Type | Dry replaceable element with restriction indicator |

** @ 13 mm H₂O

Weight & Dimensions

| Length | Width | Height | Weight (dry) |
|--------|-------|--------|--------------|
| mm | mm | mm | kg |
| 821 | 739 | 982 | 352 |

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 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

Limited-Time Running Power (LTP):

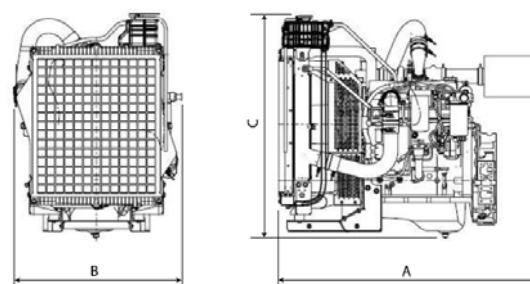
Applicable for supplying power to a constant electrical load for limited hours. Limited-Time Running Power (LTP) is in accordance with ISO 8528.

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.



Fuel Consumption 1500 (50 Hz)

| % | kWm | BHP | L/ph | US gal/ph |
|-------------------------|-----|-----|------|-----------|
| Standby Power | | | | |
| 100 | 75 | 100 | 21 | 5.5 |
| Prime Power | | | | |
| 100 | 65 | 87 | 18 | 4.9 |
| 75 | 49 | 65 | 14 | 3.7 |
| 50 | 32 | 44 | 9 | 2.5 |
| 25 | 16 | 22 | 5 | 1.4 |
| Continuous Power | | | | |
| 100 | 59 | 79 | 17 | 4.4 |

Fuel Consumption 1800 (60 Hz)

| % | kWm | BHP | L/ph | US gal/ph |
|-------------------------|-----|-----|------|-----------|
| Standby Power | | | | |
| 100 | 88 | 118 | 24 | 6.5 |
| Prime Power | | | | |
| 100 | 74 | 99 | 21 | 5.6 |
| 75 | 55 | 74 | 17 | 4.5 |
| 50 | 37 | 50 | 11 | 3.0 |
| 25 | 18 | 25 | 7 | 1.8 |
| Continuous Power | | | | |
| 100 | 68 | 91 | 20 | 5.3 |

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