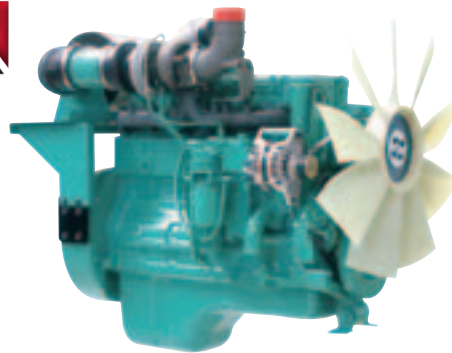


# QSL9-G1

سازنگ نوین رسانی (سهامی خاص)



## EPA T3/EU SIIIA

### > Specification sheet

Our energy working for you.™



### Description

Cummins QSL engines are built to deliver heavy-duty performance in every piece of machinery. Full-authority electronic engine controls combine with the high-pressure fuel system, 24-valve design and centred injectors for one of the highest power-to-weight ratios in its class, with up to 50% torque rise. At the same time, the QSL delivers better fuel economy, has better cold starting capability and is up to 50% quieter in operation than predecessors.



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

**Common Rail fuel System and Controls** - Bosch high pressure common rail (HPCR) - Optimize engine performance to provide seamless integration and advanced diagnostics and programming options.

**Holset HX40 Turbocharging** - Optimizes operation across the torque curve with improved response.

**Integrated Block Design** - Integrated fluid circuits replace hoses and eliminate potential leaks.

**24-Valve Cylinder Head** - Four valves per cylinder for increased power with faster response at every rpm.

**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 |
| 209/280             | 181/243 | 154/207 | 209/280           | 181/242 | 154/206 | 176                          | 220 | 160         | 200 | 134        | 168 |

### 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 |
| 241/323             | 209/280 | 178/239 | 228/306           | 196/263 | 165/221 | 200                          | 250 | 182         | 228 | 152        | 190 |

## General Engine Data

|                             |                                             |
|-----------------------------|---------------------------------------------|
| Type                        | 4 cycle, in-line, Turbo Charged, Air-cooled |
| Bore mm                     | 114 mm (4.5in)                              |
| Stroke mm                   | 145 mm (5.7in)                              |
| Displacement Litre          | 8.8 litre (543 in <sup>3</sup> )            |
| Cylinder Block              | Cast iron, 6 cylinder                       |
| Battery Charging Alternator | 70 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)       | 26.5                                        |
| 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)                          | 15.0                                               |
| Limiting Ambient Temp.**                      | 55.0                                               |
| Fan Power                                     | 7.5                                                |
| Cooling system air flow (m <sup>3</sup> /s)** | 9.4                                                |
| Air Cleaner Type                              | Dry replaceable element with restriction indicator |

\*\* @ 13 mm H<sub>2</sub>O

## 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):

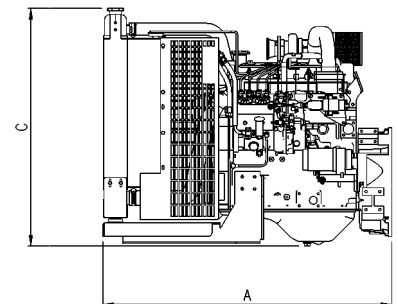
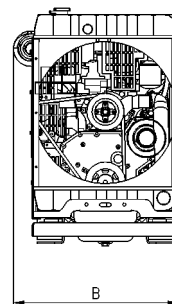
Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

### 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.

## Weights & Dimension

| Length | Width | Height | Weight (dry) |
|--------|-------|--------|--------------|
| mm     | mm    | mm     | kg           |
| 1624   | 1064  | 1463   | 910          |



## Fuel Consumption 1500 (50 Hz)

| %                       | kWm | BHP | L/ph | US gal/ph |
|-------------------------|-----|-----|------|-----------|
| <b>Standby Power</b>    |     |     |      |           |
| <b>100</b>              | 209 | 280 | 57   | 14.8      |
| <b>Prime Power</b>      |     |     |      |           |
| <b>100</b>              | 181 | 243 | 51   | 13.3      |
| <b>75</b>               | 136 | 182 | 41   | 10.7      |
| <b>50</b>               | 91  | 121 | 28   | 7.3       |
| <b>25</b>               | 45  | 61  | 16   | 4.2       |
| <b>Continuous Power</b> |     |     |      |           |
| <b>100</b>              | 154 | 207 | 48   | 12.5      |

## Fuel Consumption 1800 (60 Hz)

| %                       | kWm | BHP | L/ph | US gal/ph |
|-------------------------|-----|-----|------|-----------|
| <b>Standby Power</b>    |     |     |      |           |
| <b>100</b>              | 241 | 323 | 67   | 17.4      |
| <b>Prime Power</b>      |     |     |      |           |
| <b>100</b>              | 209 | 280 | 60   | 15.6      |
| <b>75</b>               | 157 | 210 | 48   | 12.5      |
| <b>50</b>               | 105 | 140 | 33   | 8.6       |
| <b>25</b>               | 52  | 70  | 19   | 4.9       |
| <b>Continuous Power</b> |     |     |      |           |
| <b>100</b>              | 178 | 239 | 53   | 13.8      |

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