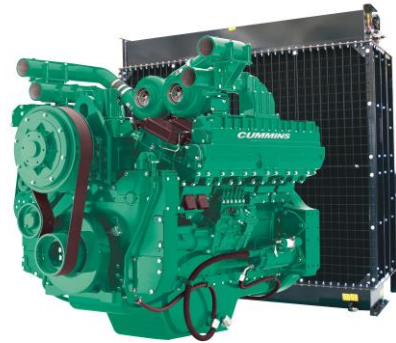




# QST30-G3

Fuel Optimized



## Description

The QST30 Quantum series utilises sophisticated electronics and premium engineering to provide outstanding performance levels from its compact 30 litre, V12 configuration. In fact, the QST30-Series delivers more power and torque in a smaller package than any other diesel engine on the market.



This equipment has been built to comply with CE certification requirement subject to EU RoHS exclusion per EU 2011/65.



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

## Features

**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.

**Quantum Electronic Fuel System and Controls** – Quantum electronics provide superior performance, efficiency and diagnostics. The electronic fuel pumps deliver up to 1100 bar injection pressure and eliminate mechanical linkage adjustments.

**Holset HX82 Turbocharging** – Utilises exhaust energy with greater efficiency for improved emissions and fuel consumption.

**G-Drive Integrated Design** - 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 |
| 895/1200            | 806/1080 | 634/850 | 866/1161          | 786/1054 | 614/823 | 800                          | 1000 | 728         | 910 | 584        | 730 |

## 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 |
| 1007/1350           | 910/1220 | 731/980 | 963/1291          | 876/1175 | 697/935 | 900                          | 1125 | 823         | 1029 | 655        | 819 |

## General engine data

|                             |   |
|-----------------------------|---|
| Type                        | 4 cycle, inline, turbocharged, After-cooled |
| Bore mm                     | 140.0mm (5.51 in.)                          |
| Stroke mm                   | 165.1mm (6.5 in.)                           |
| Displacement litre          | 30.5 litre (1860 in. <sup>3</sup> )         |
| Cylinder block              | Cast iron, 50°V, 12 cylinder                |
| Battery charging alternator | 35 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)       | 40.7  |
| Flywheel dimensions         | SAE 0 / 18                                  |

## Coolpac performance data

|   |  |
|---|--|
| Cooling system design                         | 2 pump - 2 loop                                    |
| Coolant ratio                                 | 50% ethylene glycol; 50% water                     |
| Coolant capacity (l)                          | 114.0  |
| Limiting ambient temp. ** (°C)                | 51.0   |
| Fan power (kWm)                               | 42.9   |
| Cooling system air flow (m <sup>3</sup> /s)** | 17.6   |
| Air cleaner type                              | Dry replaceable element with restriction indicator |

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

## Fuel consumption 1500 (50 Hz)

| %                       | kWm | BHP  | L/ph | g/kWh |
|-------------------------|-----|------|------|-------|
| <b>Standby Power</b>    |     |      |      |       |
| 100                     | 895 | 1200 | 204  | 53.9  |
| <b>Prime Power</b>      |     |      |      |       |
| 100                     | 806 | 1080 | 184  | 48.5  |
| 75                      | 604 | 810  | 139  | 36.6  |
| 50                      | 403 | 540  | 94   | 24.7  |
| 25                      | 201 | 270  | 51   | 13.4  |
| <b>Continuous Power</b> |     |      |      |       |
| 100                     | 634 | 850  | 146  | 38.4  |

## Fuel consumption 1800 (60 Hz)

| %                       | kWm  | BHP  | L/ph | g/kWh |
|-------------------------|------|------|------|-------|
| <b>Standby Power</b>    |      |      |      |       |
| 100                     | 1007 | 1350 | 228  | 60.2  |
| <b>Prime Power</b>      |      |      |      |       |
| 100                     | 910  | 1220 | 207  | 54.6  |
| 75                      | 683  | 915  | 154  | 40.6  |
| 50                      | 455  | 610  | 106  | 27.9  |
| 25                      | 228  | 305  | 59   | 15.7  |
| <b>Continuous Power</b> |      |      |      |       |
| 100                     | 731  | 980  | 165  | 43.5  |

## Weights and dimensions

| Length<br>mm | Width<br>mm | Height<br>mm | Weight (dry)<br>kg |
|--------------|-------------|--------------|--------------------|
| 2621         | 1448        | 2021         | 3437               |

## Ratings definitions

| Emergency Standby Power (ESP):   | Limited-Time Running Power (LTP):  | Prime Power (PRP):  | Base Load (Continuous) Power (COP):  |
|--|--|---|--|
| 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. | Applicable for supplying power to a constant electrical load for limited hours. Limited-Time Running Power (LTP) is in accordance with ISO 8528. | 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. | 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. |

For more information contact your local Cummins distributor or visit [cummins.com](http://cummins.com)

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