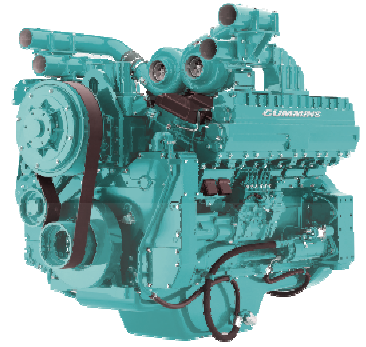


QST30-G3



> Specification sheet

Our energy working for you.™



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 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

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.

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.

PAIVAR DIESEL ASIA

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 |

Our energy working for you.™

www.cumminsgdrive.com

©2008 | Cummins G-Drive Engines | Specifications Subject to Change Without Notice | Cummins is a registered trademark of Cummins Inc. (01/08) (GDSS135)



General Engine Data

| | |
|-----------------------------|---|
| Type | 4 cycle, in line, Turbocharged and after-cooled |
| Bore mm | 140.0mm (5.51 in.) |
| Stroke mm | 165.1mm (6.5 in.) |
| Displacement Litre | 30.5 litre (1860 in. ³) |
| Cylinder Block | Cast iron, 50 ^o 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 | 0/18 |

Coolpac Performance Data

| | |
|---|--|
| Cooling System Design | Jacket Water After Cooled |
| Coolant Ratio | 50% ethylene glycol; 50% water |
| Coolant Capacity (l) | 114.0 |
| Limiting Ambient Temp.** | 51.0 |
| Fan Power | 42.9 |
| Cooling System Air Flow (m ³ /s)** | 17.6 |
| Air Cleaner Type | Dry replaceable element with restriction indicator |

** @ 13 mm HF0

Weight & Dimensions

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

Fuel Consumption 1500 (50 Hz)

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

Fuel Consumption 1800 (60 Hz)

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

Cummins G-Drive Engines

Asia Pacific

10 Toh Guan Road
#07-01
TT International Tradepark
Singapore 608838
Phone 65 6417 2388
Fax 65 6417 2399

Europe, CIS, Middle East and Africa

Manston Park Columbus Ave
Manston Ramsgate
Kent CT12 5BF, UK
Phone 44 1843 255000
Fax 44 1843 255902

Latin America

Rua Jati, 310, Cumbica
Guarulhos, SP 07180-900
Brazil
Phone 55 11 2186 4552
Fax 55 11 2186 4729

Mexico

Cummins S. de R.L. de C.V.
Eje 122 No. 200 Zona Industrial
San Luis Potosi, S.L.P. 78090
Mexico
Phone 52 444 870 6700
Fax 52 444 870 6811

North America

1400 73rd Avenue N.E.
Minneapolis, MN 55432
USA
Phone 1 763 574 5000
USA Toll-free 1 877 769 7669
Fax 1 763 574 5298

Our energy working for you.™

www.cumminsgdrive.com

©2008 | Cummins G-Drive Engines | Specifications Subject to Change Without Notice | Cummins is a registered trademark of Cummins Inc. (01/08) (GDSS135)



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.