Specification Sheet

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

This equipment has been designed and tested to meet EU product safety regulations. Material compliance declaration is available upon request

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	806/1081	634/850	864/1159	784/1051	612/821	816	1020	741	926	578	722

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	970/1301	883/1184	704/944	922	1152	839	1049	669	836

General Engine Data

Fuel Rating	FR5278
Type	4 cycle, inline, turbocharged, After-cooled
Bore mm	140mm (5.51 in.)
Stroke mm	165mm (6.50 in.)
Displacement litre	30.48 litre (1860 $in.^3$)
Cylinder block	12 cylinder
Battery charging alternator	35 amps
Starting voltage	24-volt
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)	154
Flywheel dimensions	SAE 0 / 18

Coolpac Performance Data

Cooling system design	JWAC
Coolant ratio	50% ethylene glycol; 50% water
Coolant capacity (l)	114.0
Limiting ambient temp.** (°C)	51.0
Fan power (kWm)	56.6
Cooling system air flow (m^3/s)**	17.6
Air cleaner type	Dry replaceable element with restriction indicator

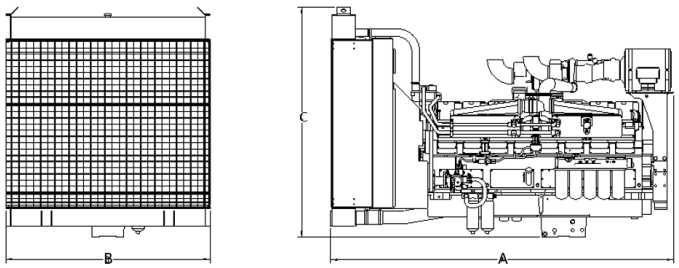
** @ 13 mm H_20

Fuel Consumption 1500 (50 Hz)

%	kWm	BHP	L/hr	US Gal./hr
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/hr	US Gal./hr
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



Drawing for illustration purposes only.

Weights and Dimensions

Length mm	Width mm	Height mm	Weight (dry) kg
3092	1448	1828	3565

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

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