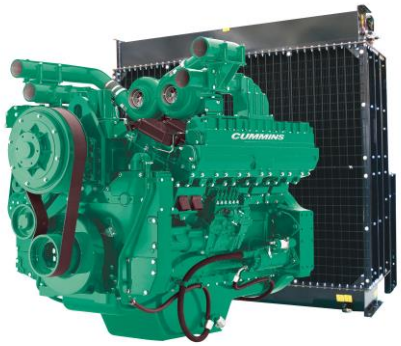
Specification sheet

QST30-G4

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.

CE	This equipment has been built to comply with CE certification requirement subject to EU RoHS exclusion per EU 2011/65.
Registered To ISO 9001	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
970/1300	880/1180	683/915	943/1264	853/1143	656/879	880	1100	800	1000	683	791

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
1112/1490	1007/1350	832/1115	1070/1434	965/1294	790/1059	1012	1265	920	1150	752	940

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 $in.^3$)
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)	154
Flywheel dimensions	SAE 0

Coolpac performance data

Cooling system design	Air-air Charge cooled	
Coolant ratio	50% ethylene glycol; 50% water	
Coolant capacity (l)	192	
Limiting ambient temp.** (°C)	52 (50Hz)	52.3 (60Hz)
Fan power (kWm)	27 (50Hz)	42 (60Hz)
Cooling system air flow (m^3/s)**	12.6 (50Hz)	17.07 (60Hz)
Air cleaner type	“Normal Duty” Dry replaceable element with restriction indicator	

** @ 13 mm H_20

Fuel consumption 1500 (50 Hz)

%	kWm	BHP	L/ph	g/kWh
Standby Power				
100	970	1300	224	59.1
Prime Power				
100	880	1180	202	53.2
75	660	885	151	39.8
50	440	590	102	26.9
25	220	295	54	14.2
Continuous Power				
100	683	915	156	41.1

Fuel consumption 1800 (60 Hz)

%	kWm	BHP	L/ph	g/kWh
Standby Power				
100	1112	1490	267	70.5
Prime Power				
100	1007	1350	240	63.3
75	756	1013	177	46.7
50	504	675	119	31.5
25	252	338	66	17.4
Continuous Power				
100	832	1115	194	51.4

Weights and dimensions

Length mm	Width mm	Height mm	Weight (dry) kg
3008	1429	2275	3662

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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