





QST30-G5

EPA Tier 2



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.

CTT (Cummins Turbo Technology) HX82 Turbocharging – Utilises exhaust energy with greater efficiency for improved emissions and fuel consumption.

Charge Air Cooling – Utilizing an Air-to-Air heat exchanger or Charge-Air-Cooler (CAC) to reduce intake manifold temperature and to meet the lower emissions requirements.

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
-	-	-	-	-	-	-	-	-	-	-	-

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	1069/1434	975/1308	800/1073	1000	1250	910	1138	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)	40.7
Flywheel dimensions	SAE 0

Coolpac performance data

Cooling system design	Air-air Charge cooled
Coolant ratio	50% ethylene glycol; 50% water
Coolant capacity (l)	202
Limiting ambient temp.** (°C)	50.0
Fan power (kWm)	42.4
Cooling system air flow (m ³ /s)**	16.0
Air cleaner type	Dry replaceable element with restriction indicator

** @ 13 mm H₂O

Fuel consumption 1500 (50 Hz)

%	kWm	BHP	L/ph	g/kWh
Standby Power				
100	-	-	-	-
Prime Power				
100	-	-	-	-
75	-	-	-	-
50	-	-	-	-
25	-	-	-	-
Continuous Power				
100	-	-	-	-

Fuel consumption 1800 (60 Hz)

%	kWm	BHP	L/ph	g/kWh
Standby Power				
100	1112	1490	275	72.7
Prime Power				
100	1007	1350	248	65.4
75	755	1013	185	48.8
50	504	675	126	33.1
25	252	338	69	18.2
Continuous Power				
100	832	1115	246	64.9

Weights and dimensions

Length mm	Width mm	Height mm	Weight (dry) kg
2772	1752	2226	3822

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.

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