Specification Sheet



QSG12-G1

Fuel Optimized



Description

The QSG12 engine is designed with fewer parts and less weight to provide higher reliability and more convenient maintenance. Featuring the Cummins High Pressure Common Rail (HPCR) fuel system, the QSG12 has evolved from the proven and successful base platform of an automotive engine, which is widely accepted for its high levels of in-service reliability and performance.

The QSG12 engine also has excellent derating performance for temperature and altitude; when coupled with 50°C ambient capable cooling system, it makes these engines the best performers in the harshest conditions.

Features

Cummins High Pressure Common Rail (HPCR) Fuel System – Most capable common-rail fuel system utilized on a heavy-duty engine, enabling faster and smoother power delivery with lower fuel consumption.

Coolpac Integrated Design - Products are supplied complete with cooling package and normal-duty air cleaner kit for a complete power package. A heavy-duty air cleaner is offered as an option.

Full Authority Electronic Engine - Advanced engine monitoring, diagnostics, protection and control, coupled with the HPCR fuel system, capable of delivering extreme fuel injection pressures with multiple injection events, improved fuel efficiency, lower noise and enhanced engine performance.



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 **Controls -** Fitted with the Cummins CM2880 ECM that utilizes the latest in microprocessor technology. Includes the Cummins proprietary Power Generation Interface (PGI); the widely accepted SAE J1939 industry standard CAN based communication network provides advanced engine protection, ensuring faster connectivity along with a superior fault-finding capability.

Fuel Filtration System – Fleetguard two-stage fuel filtration system using NanoNetTM nanomedia can effectively block impurities as small as 5 microns and includes water in fuel (WIF) sensor. This provides reliable protection for engine fuel system components against fuel contaminated with dust, dirt or water.

Lube Filtration System – Fleetguard Lube Filter using patented StrataPoreTM filter paper delivers best in class performance while providing high efficiency filtration for extended protection to the engine and components.

Reduced Operating Costs – 500 hours for standard oil and filter changes.

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)		y (ESP)	Prime (PRP)		Base (COP)	
kWm/BHP				kWm/BHP		kWe	kVA	kWe	kVA	kWe	kVA
369/495	332/445	299/401	350/469	317/425	284/381	327	409	296	370	265	332

General Engine Data

FR20728
4 cycle, in-line, turbocharged, air-cooled
132 mm (5.20 in.)
144 mm (5.67 in.)
11.8 litre (721 in. ³)
Cast iron, 6 cylinder
110 amps
24-volt
Cummins HPCR
Spin-on fuel filters with water separator
Spin-on full flow filter
34.1
SAE 1

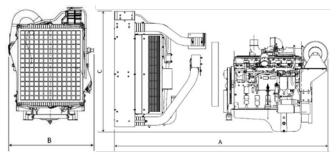
Coolpac Performance Data

Cooling system design	Air-air charge cooled
Coolant ratio	50% ethylene glycol; 50% water
Coolant capacity (I)	48
Limiting ambient temp.** (°C)	50
Fan power (kWm)	14.08
Cooling system air flow (m³/s)**	7.15
Air cleaner type	Normal duty dry replaceable element with restriction indicator

** @ 13 mm H₂0

Fuel Consumption 1500 (50 Hz)

%	kWm	BHP	L/hr	US Gal./hr			
Standby Power							
100	369	495	82	21.5			
Prime Power							
100	332	445	72	19			
75	249	334	54	14.2			
50	166	223	37	19.7			
25	83	111	20	5.2			
Continuous Power							
100	299	401	64	17			



*Drawing for illustration purposes only.

Weights and Dimensions

	Length	Width	Height	Weight (dry)	
	mm	mm	mm	kg	
-	2293	1083	1705	1010	

Ratings Definitions

Emergency Standby	Limited-Time Running	Prime Power (PRP):	Base Load (Continuous)
Power (ESP):	Power (LTP):		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 power.cummins.com



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