

QSK38-G1

EPA Tier 2



Description

The QSK38 is a V-12 cylinder engine with a 38-litre displacement. This Quantum series engine utilizes sophisticated electronics and premium engineering to provide outstanding performance levels, reliability and versatility for Standby, Prime and Continuous Power applications.



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

High pressure fuel pump, Modular Common Rail Fuel System (MCRS) and state of the art integrated electronic control system provide superior performance, efficiency and diagnostics. The electronic fuel pumps deliver up to 1600 bar injection pressure and eliminate mechanical linkage adjustments. The MCRS fuel system utilizes an electric priming pump which is integrated with the off-engine stage-1 fuel filter head and is controlled and powered by the engine ECM. The stage-2 fuel filters are mounted on-engine

CTT (Cummins Turbo Technologies) HX82/HX83/HE851 turbo-charging utilizes exhaust energy with greater efficiency for improved emissions and fuel consumption.

Low Temperature After-cooling - Twopump Two-loop (2P2L)

Ferrous Cast Ductile Iron (FCD) Pistons -High strength design delivers superior durability.

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	Standb	y (ESP)	Prime	(PRP)	Base	(COP)
kWm/BHP			kWm/BHP		kWe	kVA	kWe	kVA	kWe	kVA	
970/1300	876/1175	792/1062	922/1236	838/1124	754/1011	880	1101	800	1000	720	900

General Engine Data

Fuel Rating	FR6786		
Туре	4 cycle, turbocharged, After-cooled		
Bore mm	159		
Stroke mm	159		
Displacement litre	37.7		
Cylinder block	Cast iron, 12 cylinder		
Battery charging alternator	55 amps		
Starting voltage	24-volt, negative ground		
Fuel system	Cummins direct injection MCRS		
Fuel filter	Spin-on fuel filters with water separator		
Lube oil filter type(s)	Spin-on full flow filter		
Lube oil capacity (I)	170		
Flywheel dimensions	SAE 0		

Coolpac Performance Data

Cooling system design	2 pump - 2 loop		
Coolant ratio	50% ethylene glycol; 50% water		
Coolant capacity (I)			
Limiting ambient temp.** (°C)			
Fan power (kWm)	Engine only – not applicable		
Cooling system air flow (m³/s)**			
Air cleaner type	Dry replaceable element with restriction indicator		

Fuel Consumption 1500 (50 Hz)

	I			1			
%	kWm	ВНР	L/hr	US Gal./hr			
Standby Power							
100	970	1300	232	61.3			
Prime Power							
100	876	1174	212	56.0			
75	657	881	168	44.3			
50	438	587	117	30.8			
25	219	294	63	16.7			
Continuous Power							
100	792	1061	197	52.1			

Weights and Dimensions (Engine only)

Length	Width	Height	Weight (dry)
mm	mm	mm	kg
2081	1492	1866	3825

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

