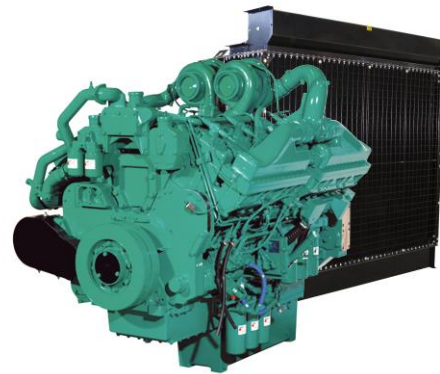




# QSK38-G2

EPA Tier 2



## Description

The QSK38 is a V12 cylinder engine with a 38 litre displacement. This Quantum series utilizes sophisticated electronics and premium engineering to provide outstanding performance levels, reliability and versatility for Standby, Prime and Continuous Power applications.



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

**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 new MCRS 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 - Two-pump 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	Standby (ESP)		Prime (PRP)		Base (COP)	
kWm/BHP			kWm/BHP			kWe	kVA	kWe	kVA	kWe	kVA
1096/1470	989/1326	893/1197	1059/1420	963/1291	867/1163	1000	1250	908	1135	816	1020

## 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
-	-	-	-	-	-	-	-	-	-	-	-

## General engine data

Type	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 (l)	170
Flywheel dimensions	SAE 0

## Coolpac performance data

Cooling system design	2 pump - 2 loop
Coolant ratio	50% ethylene glycol; 50% water
Coolant capacity (l)	Engine only – not applicable
Limiting ambient temp. ** (°C)	
Fan power (kWm)	
Cooling system air flow (m <sup>3</sup> /s)**	
Air cleaner type	Dry replaceable element with restriction indicator

\*\* @ 13 mm H<sub>2</sub>O

## Fuel consumption 1500 (50 Hz)

%	kWm	BHP	L/ph	g/kWh
<b>Standby Power</b>				
100	1096	1470	271	71.6
<b>Prime Power</b>				
100	989	1326	242	51.0
75	742	995	193	51.0
50	494	663	139	36.7
25	248	332	78	20.6
<b>Continuous Power</b>				
100	893	1197	219	57.8

## Fuel consumption 1800 (60 Hz)

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

## Weights and dimensions (Engine only)

Length mm	Width mm	Height mm	Weight (dry) kg
2081	1492	1866	4100

## 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](http://cummins.com)

**Our energy working for you.™**

