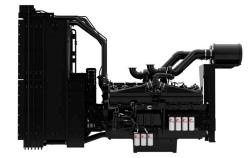
Specification Sheet



QSK50-G2 EPA Tier 2 and TA Luft Compliant



Description

The QSK50 is a V 16-cylinder engine with a 50-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.

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 turbocharging 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.

ISO 9001 ISO 14001 ISO 45001	This product was manufactured in a facility whose quality management system is certified to ISO 9001 and its Health Safety Environmental Management Systems certified to ISO 14001 and ISO 45001.
RoHS	Consult factory for RoHS information.

1500 rpm (50 Hz Ratings)

Gros	ss engine out	put	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
1259/1689	1107/1485	997/1337	1173/1573	1070/1435	960/1287	1120	1400	1021	1277	916	1146

1800 rpm (60 Hz Ratings)

Gro	ss 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
1396/1872	1210/1623	1089/1460	1336/1792	1164/1561	1043/1399	1270	1587	1106	1382	991	1239

General Engine Data

General Engine Data				
Fuel Rating	FR6832			
Туре	4 cycle, turbocharged, After-cooled			
Bore mm	159			
Stroke mm	159			
Displacement litre	50.3			
Cylinder block	16 cylinder			
Battery charging alternator	55 amps			
Starting voltage	24-volt			
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)	234.7			
Flywheel dimensions	SAE 0			

Coolpac Performance Data

Cooling system design	2 pump - 2 loop
Coolant ratio	50% ethylene glycol; 50% water
Coolant capacity (I)	294
Limiting ambient temp.** (°C)	53 (50Hz); 51 (60Hz)
Fan power (kWm)	40 (50Hz); 50 (60Hz)
Cooling system air flow (m ³ /s)**	35 (50Hz); 35 (60Hz)
Air cleaner type	Dry replaceable element with restriction indicator

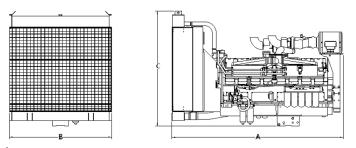
** @ 13 mm H₂0

Fuel Consumption 1500 (50 Hz)

%	kWm	BHP	L/hr	US Gal./hr			
Standby Power							
100	1259	1689	313	82.6			
Prime Pow	Prime Power						
100	1107	1485	275	72.6			
75	831	1114	220	58.0			
50	554	743	151	39.8			
25	277	371	84	22.2			
Continuou	Continuous Power						
100	997	1337	254	67.2			

Fuel Consumption 1800 (60 Hz)

%	kWm	BHP	L/hr	US Gal./hr		
Standby Power						
100	1396	1872	337	89.1		
Prime Power						
100	1210	1622	299	78.9		
75	908	1217	241	63.6		
50	605	811	166	43.9		
25	303	406	100	26.4		
Continuous Power						
100	1089	1460	276	73.0		



*Drawing for illustration purposes only.

Weights and Dimensions

Length	Width	Height	Weight (dry)
mm	mm	mm	kg
4674	2468	3100	7429

Ratings Definitions

Emergency Standby	Limited-Time Running	Prime Power (PRP):	Base Load (Continuous)
Power (ESP):	Power (LTP):		Power (COP):
Applicable for supplying power continuously to varying electrical loads for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528 and ISO 3046-1, obtained and corrected in accordance with ISO 15550).	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 3046-1. Data shown above represents gross engine performance and capabilities as per ISO 3046-1, obtained and corrected in accordance with ISO 15550.	Applicable for supplying power continuously to a constant load up to the full output rating for unlimited hours. No sustained overload capability is available for this rating. Consult authorized distributor for rating. (Equivalent to Continuous Power in accordance with ISO 8528 and ISO 3046-1, obtained and corrected in accordance with ISO 15550).

For more information contact your local Cummins distributor or visit cummins.com



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