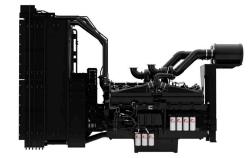
#### **Specification Sheet**



# QSK50-G3 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)

Gro	ss engine ou	tput	t Net engine output			Typical generator set output					
Standby	Prime	Base	Standby	Prime	Base	Standby (ESP)		P) Prime (PRP)		Base (COP)	
	kWm/BHP			kWm/BHP		kWe	kVA	kWe	kVA	kWe	kVA
1400/1877	1210/1623	1100/1475	1308/1754	1173/1573	1063/1426	1249	1562	1120	1400	1015	1268

# 1800 rpm (60 Hz Ratings)

Gro	ss engine ou	e output Net engine output			Typical generator set output						
Standby	Prime	Base	Standby Prime Base Standby (ES		y (ESP)	SP) Prime (PRP)		Base (COP)			
	kWm/BHP			kWm/BHP		kWe	kVA	kWe	kVA	kWe	kVA
1559/2091	1394/1869	1223/1640	1497/2008	1347/1806	1176/1577	1422	1777	1280	1600	1117	1397

# **General Engine Data**

Fuel Rating	FR6833
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)	52 (50Hz); 50 (60Hz)
Fan power (kWm)	40 (50Hz); 50 (60Hz)
Cooling system air flow (m <sup>3</sup> /s)**	35 (50Hz); 35 (60Hz)
Air cleaner type	Dry replaceable element with restriction indicator

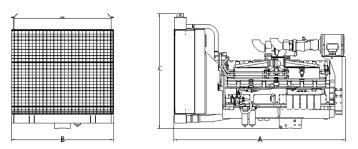
\*\* @ 13 mm H<sub>2</sub>0

## Fuel Consumption 1500 (50 Hz)

%	kWm	BHP	L/hr	US Gal./hr			
Standby P	Standby Power						
100	1400	1878	344	90.8			
Prime Pow	Prime Power						
100	1210	1622	301	79.4			
75	908	1217	237	62.6			
50	605	811	162	42.9			
25	303	406	90	23.9			
Continuous Power							
100	1100	1475	272	71.9			

# Fuel Consumption 1800 (60 Hz)

%	kWm	BHP	L/hr	US Gal./hr	
Standby P	ower				
100	1559	2090	377	99.7	
Prime Power					
100	1394	1870	338	89.4	
75	1046	1403	276	72.8	
50	697	935	196	51.9	
25	349	468	111	29.4	
Continuous Power					
100	1223	1640	307	81.1	



\*Drawing for illustration purposes only.

#### **Weights and Dimensions**

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

#### **Ratings Definitions**

Radingo Bonnaono			
Emergency Standby Power (ESP):	Limited-Time Running Power (LTP):	Prime Power (PRP):	Base Load (Continuous) 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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