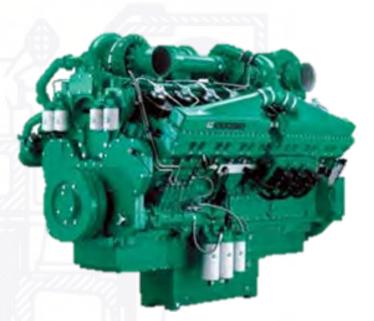
## **QSK50-G3**

# **Emissions Compliance: EPA NSPS Stationary Emergency Tier 2**

## **Specification Sheet**

#### **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 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	Α
1401/1878	1210/1 <b>62</b> 2	100/1475	353/1814	1176/1577	1066/1429	1232	1540	1120	1400	1023	1279

#### **Ratings Definitions**

**Emergency Standby Power (ESP):** 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.

**Limited-Time Running Power (LTP):** Applicable for supplying power to a constant electrical load for limited hours. Limited-Time Running Power (LTP) is in accordance with ISO 8528.

#### Prime Power (PRP):

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.

Base Load (Continuous) Power (COP): 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.

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## **General Engine Data**

Туре	4 cycle, Turbocharged, After-cooled				
Bore mm	159				
Stroke mm	159				
Displacement Litre	50.3				
Cylinder Block	Cast iron, 16 cylinder				
Battery Charging Alternator	55A				
Starting Voltage	24V				
Fuel System	Direct injection Cummins MCRS				
Fuel Filter	Spin on fuel filters with water separator				
Lube Oil Filter Type(s)	Spin on full flow filter				
Lube Oil Capacity (I)	235				
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 v	Dry replaceable element with restriction indicator			

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

## **Weight & Dimensions**

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

## Fuel Consumption 1500 rpm (50 Hz)

%	kWm		ВНР	L/ph	US gal/ph
Standby Power					
100	1401	17777	1878	357	94.2
Prime Power					
100	1210	NAME OF THE OWNER OWNER OF THE OWNER OW	1622	313	85.5
75	908	V 1000		241	63.6
50	605			168	44.4
25	303	de de contraction de la contra		91	23.9
Continuous Pov	ver				
100	1100		1475	282	74.3