

# QSB5-G3

Emissions Compliance:  
EU Stage IIIA at 50 Hz  
EPA Tier 3 at 60 Hz



> Specification sheet

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## Description

The QSB5 incorporates the latest diesel engine technology, including a high pressure common rail fuel system for greater fuel efficiency, lower noise and reduced emissions.



This engine has been built to comply with CE certification.



This engine has been designed in facilities certified to ISO9001 and manufactured in facilities certified to ISO9001 or ISO9002.

## Features

**Full-Authority Electronic Controls** - Optimize engine operation and deliver critical information for controlling costs, reducing maintenance and seamless integration with other components.

**Holset HX35 Wastegated Turbo** - Wastegated design optimizes transient response.

**Low-Maintenance Fuel Filter Assembly** - The fuel filter incorporates an integral water separator and water-in-fuel sensor; 500-hour filter life with easy top-load replacement using standard Fleetguard® filters.

**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
94/126	81/109	74/99	86/115	74/99	67/90	72	90	66	82	62	78

## 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
108/145	94/126	84/113	96/129	83/111	73/98	80	100	72	90	68	85

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## General Engine Data

Type	4-Cycle, in-line, 4-cylinder diesel
Bore mm	107 mm (4.21 in.)
Stroke mm	124 mm (4.88 in.)
Displacement Litre	4.5 litre (275 in. <sup>3</sup> )
Cylinder Block	Cast iron, 4 cylinder
Battery Charging Alternator	100 amps
Starting Voltage	24 volt, negative ground
Fuel System	Direct injection
Fuel Filter	Spin-on fuel filters with water separator
Lube Oil Filter Type(s)	Spin-on full flow filter
Lube Oil Capacity (l)	12.2
Flywheel Dimensions	SAE3

## Coolpac Performance Data

Cooling System Design	Not available
Coolant Ratio	
Coolant Capacity (l)	
Limiting Ambient Temp.**	
Fan Power	
Cooling System Air Flow (m <sup>3</sup> /s)**	
Air Cleaner Type	

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

## Weight & Dimensions

Length	Width	Height	Weight (dry)
mm	mm	mm	kg
821	739	982	352

## Fuel Consumption 1500 (50 Hz)

%	kWm	BHP	L/ph	US gal/ph
<b>Standby Power</b>				
100	94	126	25	6.7
<b>Prime Power</b>				
100	81	109	22	5.9
75	61	82	18	4.7
50	41	55	12	3.2
25	20	27	6	1.7
<b>Continuous Power</b>				
100	74	99	21	5.6

## Fuel Consumption 1800 (60 Hz)

%	kWm	BHP	L/ph	US gal/ph
<b>Standby Power</b>				
100	108	145	29	7.7
<b>Prime Power</b>				
100	94	126	26	6.9
75	70	95	21	5.6
50	47	63	15	3.9
25	23	32	8	2.2
<b>Continuous Power</b>				
100	84	113	24	6.2

## 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 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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