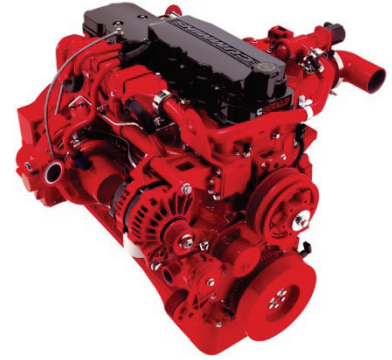


# QSB7-G6

**Emissions Compliance:**  
**EU Stage IIIA at 50Hz and 60Hz**  
**EPA Tier 4i at 50Hz and 60Hz**



> Specification sheet



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## Description

The QSB7 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 will replace the QSB7 EPA Tier 3 engines in all markets that require compliance to the EPA Tier 4 Interim 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

**Low Exhaust Emissions** – A state of the art, efficient exhaust diesel particulates filter (DPF) system reduces exhaust emissions to meet 2011 USA and European standards. The QSB7-G6 engine requires Ultra Low Sulfur Diesel (ULSD) fuel (15 ppm sulfur maximum).



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

**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.

**Integrated Design** – Each component (Engine, DPF and Air Cleaner) 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			Typical Generator Set Output					
Standby	Prime	Base	Standby (ESP)		Prime (PRP)		Base (COP)	
kWm/BHP			kWe	kVA	kWe	kVA	kWe	kVA
204/274	185/248	167/224	176	220	160	200	128	160

## 1800 rpm (60 Hz Ratings)

Gross Engine Output			Typical Generator Set Output					
Standby	Prime	Base	Standby (ESP)		Prime (PRP)		Base (COP)	
kWm/BHP			kWe	kVA	kWe	kVA	kWe	kVA
234/314	210/282	189/254	200	250	180	225	140	175

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## General Engine Data

Type	4-cycle, in-line, 6-cylinder diesel
Bore mm	107 mm (4.21 in.)
Stroke mm	124 mm (4.88 in.)
Displacement Litre	6.7 litre (408 in. <sup>3</sup> )
Cylinder Block	Cast iron, 6 cylinder
Battery Charging Alternator	70 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)	15
Flywheel Dimensions	SAE3 / 11.5"

## Coolpac Performance Data

Cooling System Design	Air-Air Charge Cooled
Coolant Ratio	50% ethylene glycol; 50% water
Coolant Capacity (l)	Engine Only
Limiting Ambient Temp.** (°C)	
Fan Power (kWm)	
Cooling System Air Flow (m <sup>3</sup> /s)**	
Air Cleaner Type	Heavy duty dry replaceable element with restriction indicator

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

## 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.

## Engine Weight & Dimensions (excluding Air Cleaner & DPF)

Length	Width	Height	Weight (dry)
mm	mm	mm	kg
1057	944	1118	519

## Fuel Consumption 1500 (50 Hz)

%	kWm	BHP	L/ph	US gal/ph
<b>Standby Power</b>				
100	204	274	51	13.4
<b>Prime Power</b>				
100	185	248	46	12.1
75	139	186	36	9.4
50	92	124	24	6.3
25	46	62	13	3.4
<b>Continuous Power</b>				
100	167	224	42	11

## Fuel Consumption 1800 (60 Hz)

%	kWm	BHP	L/ph	US gal/ph
<b>Standby Power</b>				
100	234	314	58	15.4
<b>Prime Power</b>				
100	210	282	52	13.8
75	158	212	40	10.5
50	105	141	27	7.2
25	53	71	16	4.3
<b>Continuous Power</b>				
100	189	254	47	12.5

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