

QSB5-G5

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

Preliminary



> 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.

Coolpac Integrated Design - Products are supplied complete with cooling package and air cleaner kit for a complete power package. 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	kVA
113/151	97/130	88/118	105/141	90/121	81/109	88	110	80	100	76	94

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
131/176	113/152	104/139	119/160	101/135	93/125	100	125	90	113	87	108

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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. ³)
Cylinder Block	Cast iron, 4 cylinder
Battery Charging Alternator	100 amps
Starting Voltage	12 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	Jacket Water and Charge Air Cooled	
Coolant Ratio	50% ethylene; 50% water	
	50 Hz	60 Hz
Coolant Capacity (l)	16.7	16.7
Limiting Ambient Temp. **(°C)	55	55
Fan Power (kWm)	113	131
Cooling System Air Flow (m ³ /s)**	6.97	8.71
Air Cleaner Type	Medium Duty, Two Stage	

** @ 13 mm H₂O

Weight & Dimensions

Length	Width	Height	Weight (dry)
mm	mm	mm	kg
1360	860	1150	462

Fuel Consumption 1500 (50 Hz)

%	kWm	BHP	L/ph	US gal/ph
Standby Power				
100	113	152	29	7.5
Prime Power				
100	97	130	25	6.6
75	73	98	20	5.3
50	48	65	13	3.5
25	24	33	7	1.9
Continuous Power				
100	88	118	24	6.3

Fuel Consumption 1800 (60 Hz)

%	kWm	BHP	L/ph	US gal/ph
Standby Power				
100	131	176	34	8.9
Prime Power				
100	113	152	29	7.7
75	85	114	24	6.4
50	57	76	16	4.3
25	28	38	9	2.4
Continuous Power				
100	104	139	27	7.2

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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):

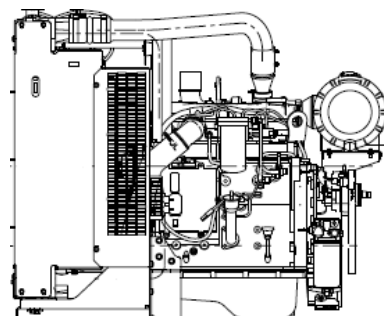
Applicable for supplying power to a constant electrical load for limited hours. Limited-Time Running Power (LTP) is in accordance with ISO 8528.

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) is in accordance with ISO 8528, ISO 3046, AS 2789, DIN6271 and BS 5514.



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