

# 6BTA5.9-G6



> Specification sheet

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## Description

The B5.9 engine has established an unrivalled reputation for reliability, incorporating features designed to maximise engine integration within OEM installation.



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 ISO 9002 or TS16949.

## Features

**Single Poly Vee belt drive** for fan, alternator and water pump, with self-tensioning idler for minimum maintenance.

**Inline-type Bosch A-Series pump** operates at high injection pressures for cleaner combustion and lower emissions.

**Spin-on fuel filter** and full-flow lubricating oil filter.

**Top mounted Holset HX35 turbocharger** for increased power, fuel economy, and lower smoke and noise levels.

**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.

## 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
132/177	119/159	101/135	120/161	109/146	91/122	100	125	91	114	88	110

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## General Engine Data

Type	4 cycle, in-line, Turbo Charged
Bore mm	102 mm (4.02 in.)
Stroke mm	120 mm (4.72 in.)
Displacement Litre	5.9 litre (359.0 in. <sup>3</sup> )
Cylinder Block	Cast iron, 6 cylinder
Battery Charging Alternator	55 amps
Starting Voltage	12 volt, 55 Amp 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)	16.4
Flywheel Dimensions	3/11.5

## Coolpac Performance Data

Cooling System Design	Jacket Water After Cooled
Coolant Ratio	50% ethylene glycol; 50% water
Coolant Capacity (l)	19.75
Limiting Ambient Temp.**	55.0
Fan Power(kWm)	9.6
Cooling System Air Flow (m <sup>3</sup> /s)**	6.17
Air Cleaner Type (Normal Duty)	Dry replaceable element with restriction indicator

\*\* @ 13 mm H<sub>2</sub>O at 100% Prime

## Shipping Weight & Dimensions

	Length	Width	Height	Weight (dry)
	mm	mm	mm	kg
Engine only*	1065	698	981	402
Coolpac	1526	817	1262	505

\*Fan to flywheel

## Fuel Consumption 1500 (50 Hz)

%	kWm	BHP	L/ph	US gal/ph
<b>Standby Power</b>				
100	132	177	35	9.1
<b>Prime Power</b>				
100	119	159	31	8.1
75	89	120	23	5.9
50	59	80	16	4.1
25	30	40	9	2.4
<b>Continuous Power</b>				
100	101	135	25	6.7

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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 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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