

Specification Sheet



6BTAA5.9-G6

Fuel Optimized



Description

The 6B5.9 has all the strength and reliability the genset industry has, to expect from the B Series range but in a smaller, lighter, and more economical package. The 6B5.9 features indirect fuel injection, resulting in cleaner, quieter and more fuel-efficient performance. With a highly compact 6-cylinder envelope and extremely low heat rejection, the engine offers a high degree of installation flexibility.

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.



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

This equipment has been designed and tested to meet EU product safety regulations. Material compliance declaration is available upon request

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
145/194	135/181	135/181	132/177	124/166	124/166	120	150	113	141	113	141

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
160/215	150/201	145/194	147/197	139/186	134/180	135	169	127	158	122	153

General Engine Data

Fuel Rating	FR94136
Type	4 cycle, in-line, turbocharged
Bore mm	102 mm (4.02 in.)
Stroke mm	120 mm (4.72 in.)
Displacement litre	5.9 litre (360 in. ³)
Cylinder block	6 cylinder
Battery charging alternator	55 amps
Starting voltage	12-volt
Fuel system	Bosch Mechanical
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 and Charged Air Cooled
Coolant ratio	50% ethylene glycol; 50% water
Coolant capacity (l)	22.1
Limiting ambient temp.** (°C)	50
Fan power (kWm)	9.8
Cooling system air flow (m ³ /s)**	3.77
Air cleaner type	Dry replaceable element with restriction indicator

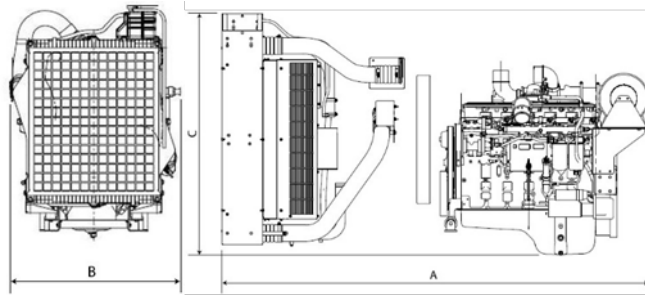
** @ 12.7 mm H₂O

Fuel Consumption 1500 (50 Hz)

%	kWm	BHP	L/hr	US Gal./hr
Standby Power				
100	145	195	37	9.9
Prime Power				
100	135	180	35	9.5
75	101	165	27	7.1
50	68	91	18	4.8
25	34	46	9	2.5
Continuous Power				
100	135	180	35	9.5

Fuel Consumption 1800 (60 Hz)

%	kWm	BHP	L/hr	US Gal./hr
Standby Power				
100	160	215	41	10.9
Prime Power				
100	150	205	39	10.4
75	113	152	31	8.3
50	75	101	21	5.5
25	38	51	12	3.1
Continuous Power				
100	145	195	37	9.7



*Drawing for illustration purposes only.

Weights and Dimensions

Length mm	Width mm	Height mm	Weight (dry) kg
51723	896	1380	718

Ratings Definitions

Emergency Standby Power (ESP):	Limited-Time Running Power (LTP):	Prime Power (PRP):	Base Load (Continuous) Power (COP):
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.	Applicable for supplying power to a constant electrical load for limited hours. Limited-Time Running Power (LTP) is in accordance with ISO 8528.	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.	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.