

# 6BTAA5.9-G7



> Specification sheet

Our energy working for you.™



## Description

The B5.9 engine has established an unrivalled reputation for reliability, incorporating features designed to maximise engine integration within OEM installation. The 6BTAA5.9-G7 CoolPac utilises the latest Cummins manufacturing processes and Quality Standards.



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.

**Rotary-type Bosch 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.

## 1500 rpm (50 Hz Ratings)

Gross Engine Output			Typical Generator Set Output			
Standby	Prime	Base	Standby (ESP)		Prime (PRP)	
kWm/BHP			kWe	kVA	kWe	kVA
160/215	145/195	101/135	136	170	124	155

Our energy working for you.™

[www.cumminsgdrive.com](http://www.cumminsgdrive.com)

©2013 | Cummins G-Drive Engines | Specifications Subject to Change Without Notice | Cummins is a registered trademark of Cummins Inc. EMERS-5816a-EN (12/13)



## General Engine Data

Type	4- cycle, In-line, 6- cylinder, Turbocharged and Charge Air Cooled, Diesel
Bore mm	102 mm (4.02 in.)
Stroke mm	120 mm (4.72 in.)
Displacement Litre	5.9 litre (360.0 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	Venturi Combo Stratapore Filter
Lube Oil Filter Type(s)	Venturi Combo Stratapore Filter
Lube Oil Capacity (l)	16.4
Flywheel Dimensions	SAE3/11.5

## Coolpac Performance Data

Cooling System Design	Charged Air Cooled
Coolant Ratio	50% ethylene glycol; 50% water
Total Coolant Capacity (l)	21.4
Limiting Ambient Temp**	50 Degrees
Fan Power (kWm)	10
Cooling System Air Flow (m <sup>3</sup> /s)**	3.7
Air Cleaner Type (heavy duty)	Dry replaceable element with restriction indicator

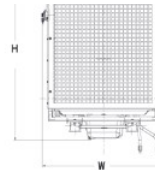
\*\* @ 13 mm H<sub>2</sub>O

## Weight and Dimensions

	Length	Width	Height	Weight (dry)
	mm	mm	mm	kg
CoolPac	1723	896	1380	718

## Fuel Consumption 1500 (50 Hz)

%	kWm	BHP	L/ph	US gal/ph
<b>Standby Power</b>				
100	160	215	41	10.9
<b>Prime Power</b>				
100	145	195	37	9.8
75	109	146	29	7.5
50	73	98	19	5.0
25	36	49	9	2.5
<b>Continuous Power</b>				
100	101	135	26	6.9



## 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.

## Cummins G-Drive Engines

**Asia Pacific**  
10 Toh Guan Road  
#07-01  
TT International Tradepark  
Singapore 608838  
Phone 65 6417 2388  
Fax 65 6417 2399

**Europe, CIS, Middle East and Africa**  
Manston Park Columbus Ave  
Manston Ramsgate  
Kent CT12 5BF, UK  
Phone 44 1843 255000  
Fax 44 1843 255902

**Latin America**  
Rua Jati, 310, Cumbica  
Guarulhos, SP 07180-900  
Brazil  
Phone 55 11 2186 4552  
Fax 55 11 2186 4729

**Mexico**  
Cummins S. de R.L. de C.V.  
Eje 122 No. 200 Zona Industrial  
San Luis Potosí, S.L.P. 78090  
Mexico  
Phone 52 444 870 6700  
Fax 52 444 870 6811

**North America**  
1400 73rd Avenue N.E.  
Minneapolis, MN 55432  
USA  
Phone 1 763 574 5000  
USA Toll-free 1 877 769 7669  
Fax 1 763 574 5298

Our energy working for you.™

[www.cumminsdrive.com](http://www.cumminsdrive.com)

©2013 | Cummins G-Drive Engines | Specifications Subject to Change Without Notice | Cummins is a registered trademark of Cummins Inc.  
EMERS-5816a-EN (12/13)

