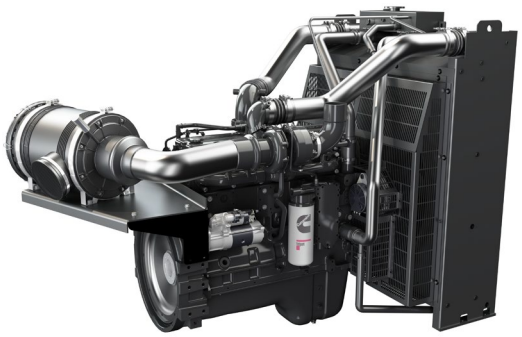
Specification Sheet

6LTAA9.5-G1

Fuel Optimized



Description

The Cummins® 6LTAA9.5 engine has a mechanical fuel system which is designed to deliver robust performance in the most extreme conditions. It also has electronic governor controls for superior engine speed stability and transient response. The cylinder head has 24-valves and bigger flow injector design which provides one of the highest power-to-weight ratios in its class.

At the same time, the 6LTAA9.5 engine delivers better fuel economy and less smoke emission than similar engines.

Features

Fuel system - Bosch P7100 type mechanical fuel injection pumps have high injection pressure, optimize engine performance and establish an unrivalled reputation for reliability.

Electronic governor control unit - Strengthening electronic governor control unit to optimize engine speed stability, transient response and reliability.

Cummins Holset HE400 and HE500 Non-wastegate turbocharger – Cummins optimized turbocharger delivers increased power, fuel economy, low smoke and lower noise levels.

Electronic fuel shut off valve – Robust design for safety for mechanical fuel system engine**.**

Integrated block design - Integrated fluid circuits replace hoses and eliminate potential leaks.

24-valve cylinder head - Four valves per cylinder for increased power with faster response and improved fuel economy.

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 Cummins G-Drive standards, 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 global service network.

ISO 9001	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	

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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
320/429	290/389	254/340	303/406	276/370	240/322	281	352	256	321	223	279

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
310/416	280/375	244/327	295/396	269/361	233/312	275	343	250	312	216	270

General Engine Data

Fuel Rating	FR95002
Type	4 cycle, in-line, turbocharged, air-cooled
Bore mm	116 mm (4.58 in.)
Stroke mm	148 mm (5.82 in.)
Displacement litre	9.5 litre (579 $in.^3$)
Cylinder block	Cast iron, 6 cylinder
Battery charging alternator	70 amps
Starting voltage	24-volt, negative ground
Fuel system	Bosch 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)	32.4
Flywheel dimensions	SAE1

Coolpac Performance Data

Cooling system design	Air-air charge cooled
Coolant ratio	50% ethylene glycol; 50% water
Coolant capacity (l)	55.5
Limiting ambient temp.** (°C)	50 (50 Hz); 55 (60 Hz)
Fan power (kWm)	13 (50 Hz); 15 (60 Hz)
Cooling system air flow (m^3/s)**	7.9 (50 Hz); 10 (60 Hz)
Air cleaner type	Light duty dry replaceable element with restriction indicator

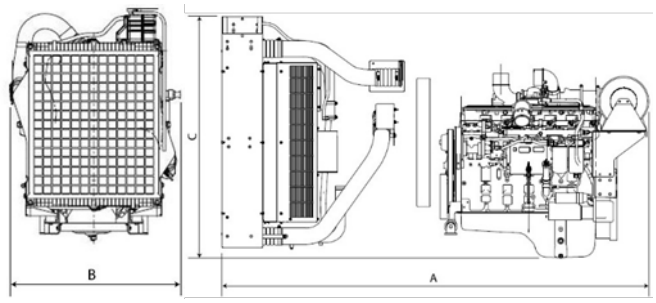
** @ 13 mm H_20

Fuel Consumption 1500 (50 Hz)

%	kWm	BHP	L/hr	US Gal./hr
Standby Power				
100	320	429	75	19.9
Prime Power				
100	290	389	68	17.9
75	218	292	50	13.2
50	145	195	34	8.9
25	73	97	18	4.7
Continuous Power				
100	254	340	59	15.6

Fuel Consumption 1800 (60 Hz)

%	kWm	BHP	L/hr	US Gal./hr
Standby Power				
100	310	416	73	19.4
Prime Power				
100	280	376	65	17.3
75	210	282	49	12.8
50	140	188	33	8.7
25	70	94	18	4.8
Continuous Power				
100	244	327	57	14.9



**Drawing for illustration purposes only.*

Weights and Dimensions

Length mm	Width mm	Height mm	Weight (dry) kg
2110	1102	1598	945

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.

For more information contact your local Cummins distributor or visit power.cummins.com

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