

# **CUMMINS ENGINE DATASHEET**

**ENGINE MODEL: 6LTAA8.9-G2**

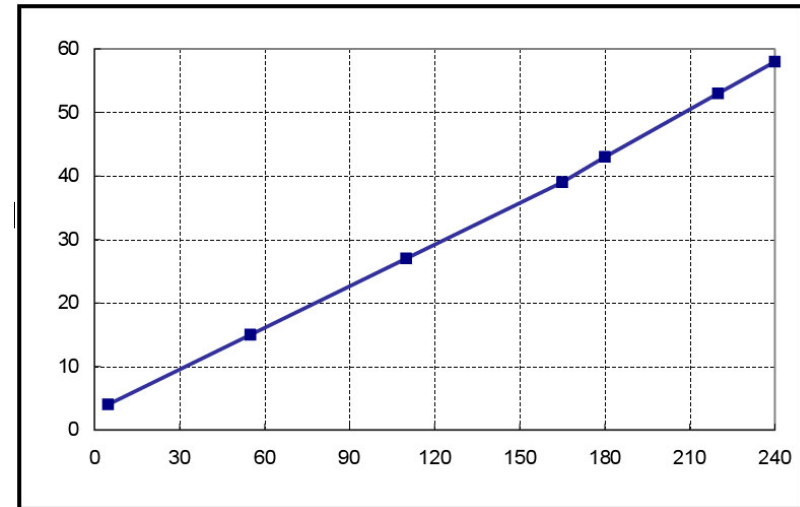
**PERFORMANCE CURVE: FR92516**

VERSION 00 2007/06

<b>DONGFENG CUMMINS ENGINE Co., Ltd.</b> <b>XiangFan HuBei P.R.CHINA</b> <b>ENGINE DATASHEET—for G-drive</b>		<b>ENGINE MODEL</b> <b>6LTAA8.9-G2</b>		<b>PERFORMANCE CURVE</b> <b>FR92516</b>
		<b>ENGINE FAMILY</b> <b>D56</b>	<b>CPL</b> <b>3079</b>	<b>2007/06</b>
Displacement	8.9 L	Air intake way	Air-air after-cooled, turbo-charged	
Cylinder bore	114 mm	Cylinder quantity	6	
Stroke	145 mm			
Fuel system	P7100 pump _ GAC governor / BYC ASIMCO		Speed-droop	5%
Engine testing with fuel system, water pump and oil pump, without air compressor, alternator, fan, other options and driving accessory. Testing condition: air intake resistance 250 mmHg, exhaust back pressure 50 mmHg.				

Engine Speed-RPM	Standby Power		Base Output Power		Continuous Power	
	kW	HP	kW	HP	kW	HP
1500	240	322	220	295	180	241

Output Power			Fuel consumption	
%	kW	HP	g/kW.h	L/h
<b>Standby Power</b>				
100	240	322	199	58
<b>Base Output Power</b>				
100	220	295	197	53
75	165	221	197	39
50	110	147	201	27
25	55	74	220	15
<b>Continuous Power</b>				
100	180	241	196	43



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### Typical engine data

Net weight	kg	650
Rotate part instantaneous inertia _ without flywheel	kg.m2	0.72
Distance between gravity center and rear surface of cylinder block	mm	427
Distance between gravity center and center line above of crankshaft	mm	163

### Engine installation

Static bent torque permitted—rear surface of cylinder block	Nm	1356
Static bent torque permitted—front surface of cylinder block	Nm	N/A
Static bent torque permitted—flank surface of flywheel-house	Nm	N/A

### Exhaust system

Max. back pressure	kPa	10.1
Diameter of exhaust pipe recommended	mm	N/A

### Air intake system

Max. air intake resistance		
Dirty filter	kPa	6.2
Normal air cleaner and clean filter	kPa	3.7
Heavy duty cleaner and clean filter	kPa	N/A
Diameter of intake pipe recommended	mm	N/A

### Lubrication system

Normal oil pressure range

Low idle	kPa	103
Rated speed	kPa	276_414
Max. oil temperature permitted in oil pan	°C	121
Oil pan capacity (Max _ Min)	L	N/A
Lubrication system Min. capacity (oil pan + oil filter)	L	27.6
Usage inclining degree permitted (any direction)	°	N/A

### Fuel system

Fuel injection pump model	BYC P7100 pump with GAC governor	
Max. fuel input resistance of transfer pump	kPa	20.3
Max. overflow fuel resistance at overflow pipe of injector	kPa	33.9
Total fuel overflow amount	L/h	83

### Cooling system

Coolant capacity-engine only	L	11.1
Max. coolant cycling resistance exterior engine	kPa	N/A
Thermostat adjusting temperature (range)	°C	82_93
Min. opening pressure of radiator cap	kPa	103
Max. coolant temperature permitted _ Standby Power/Base output Power	°C	110/104

### Electric system

Starter	12V	24V
Battery charging system	100A	70A
Max. starting circuit resistance	0.001Ω	0.002Ω
Min. battery capacity_ -12°C (CCA: Cold Cranking Ampere)	1500CCA	750CCA

### Technical data \_ under standard fuel delivery rate FR92516

Engine speed _ RPM	<b>Base output Power</b>	<b>Standby Power</b>
	1500	1500

Output Power _ kW	220	240
Torque _ Nm	1401	1528
Low idle _ RPM	850-950	850-950
Friction energy output _ kW	26	26
Piston speed _ m/s	7.25	7.25
Engine coolant flow _ L/sec	3.3	3.3
Air intake flow _ L/sec	N/A	N/A
Exhaust flow _ L/sec	N/A	N/A
Exhaust temperature _ °C	430	470
Environment energy output _ kW	N/A	N/A
Coolant energy output _ kW	95	105
Fuel energy output _ kW	0.1	0.1

All data's error within  $\pm 5\%$ .

**Excuse for none notice anymore in case of data changed**

**DONGFENG CUMMINS ENGINE Co., Ltd.**