


# CUMMINS ENGINE DATASHEET



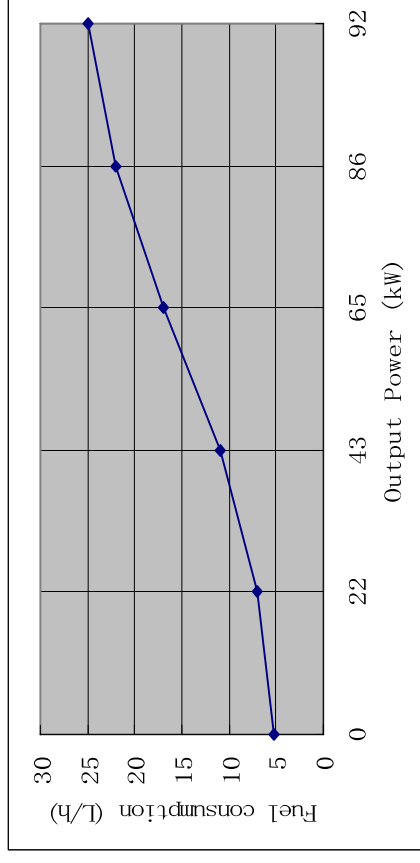
**ENGINE MODEL: 6BT5.9-G2**


**PERFORMANCE CURVE: FR 9317-02**

	<b>DONGFENG CUMMINS ENGINE Co., Ltd.</b> XiangFan Hubei P.R.CHINA <b>ENGINE DATASHEET—for G-drive</b>		<b>ENGINE MODEL</b> 6BT5.9-G2		<b>PERFORMANCE CURVE</b> FR 9317-02
			<b>ENGINE FAMILY</b> D40	<b>CPL</b> 1189-02	
<b>Displacement</b>	5.9 L	<b>Air intake way</b>	turbo-charged		
<b>Cylinder bore</b>	102 mm	<b>Cylinder quantity</b>	6		
<b>Stroke</b>	120 mm				
<b>Fuel system</b>	A pump_ GAC governor/ BYC ASIMCO				
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.					

<b>Engine</b>	<b>Standby Power</b>		<b>Base Output Power</b>		<b>Continuous Power</b>	
	kW	HP	kW	HP	kW	HP
<b>Speed-RPM</b>	92	123	86	115	N/A	N/A

<b>Output Power</b>		<b>Fuel consumption</b>	
%	kW	HP	g/kW.h
<b>Standby Power</b>			
100	92	123	221
<b>Base Output Power</b>			
100	86	115	214
75	65	87	216
50	43	58	217
25	22	29	248
<b>Continuous Power</b>			
N/A	N/A	N/A	N/A



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**Typical engine data**

Net weight

411

Rotate part instantaneous inertia \_ without flywheel

0.25

Distance between gravity center and rear surface of cylinder block

544

Distance between gravity center and center line above of crankshaft

155

**Engine installation**

Static bent torque permitted—rear surface of cylinder block

1356

Static bent torque permitted—front surface of cylinder block

435

Static bent torque permitted—flank surface of cylinder block

365

**Exhaust system**

Max. back pressure

76

Diameter of exhaust pipe recommended

75

**Air intake system**

Max. air intake resistance

635

Dirty filter

mmH2O

Normal air cleaner and clean filter

254

Heavy duty cleaner and clean filter

381

Diameter of intake pipe recommended

100

**Lubrication system**

Normal oil pressure range

Low idle	kPa	207
Rated speed	kPa	345
Max. oil temperature permitted in oil pan	°C	121
Oil pan capacity (Max _ Min)	L	14.2_12.3
Lubrication system Min. capacity (oil pan + oil filter)	L	16.4
Usage inclining degree permitted (any direction)	°	40

### Fuel system

Fuel injection pump model	A pump _ GAC governor/ BYC ASIMCO	
Max. fuel input resistance of transfer pump	mmHg	102
Max. overflow fuel resistance at overflow pipe of injector	mmHg	254
Total fuel overflow amount	L/h	202

### Cooling system

Coolant capacity-engine only	L	9.9
Max. coolant cycling resistance exterior engine	kPa	28
Thermostat adjusting temperature (range)	°C	82_95
Min. opening pressure of radiator cap	kPa	69
Max. coolant temperature permitted _ Standby Power/Base output Power	°C	104/100

### Electric system

Starter	12V	24V
Battery charging system	63A	40A
Max. starting circuit resistance	0.00075Ω	0.002Ω
Min. battery capacity_ -12°C (CCA: Cold Cranking Ampere)	800CCA	400CCA

### Technical data \_ under standard fuel delivery rate FR 91589

Engine speed _ RPM	1500	<b>Base output Power</b>	<b>Standby Power</b>
Output Power _ kW	86		92

Torque _ Nm	548	586
Low idle _ RPM	750-950	750-950
Friction energy output _ kW	12.7	12.7
Piston speed _ m/s	6.0	6.0
Engine coolant flow _ L/sec	2.0	2.0
Air intake flow _ L/sec	100	108
Exhaust flow _ L/sec	250	280
Exhaust temperature _ °C	526	565
Environment energy output _ kW	N/A	N/A
Coolant energy output _ kW	49	55
Fuel energy output _ kW	N/A	N/A

All data's error within ±5%.

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

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