


# CUMMINS ENGINE DATASHEET



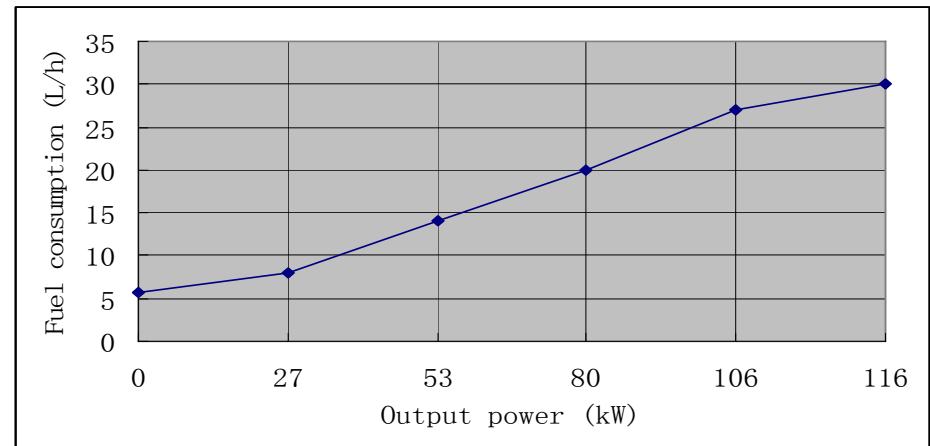
**ENGINE MODEL: 6BTA5.9-G2**


**PERFORMANCE CURVE: FR 92306**

	<b>DONGFENG CUMMINS ENGINE Co., Ltd.</b>		<b>ENGINE MODEL</b> 6BTA5.9-G2		<b>PERFORMANCE CURVE</b> FR 92306
	<b>ENGINE DATASHEET—for G-drive</b>		<b>ENGINE FAMILY</b> D40	<b>CPL</b> 2697	<b>2006/11</b>
Displacement	5.9 L	Air intake way	After-cooled, turbo-charged		
Cylinder bore	102 mm	Cylinder quantity	6	<b>kW(BHP)</b>	<b>@RPM</b>
Stroke	120 mm			106(142)	1500
Fuel system	PB 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	116	155	106	142	56	75

Output Power			Fuel consumption	
%	kW	HP	g/kW.h	L/h
<b>Standby Power</b>				
100	116	155	212	30
<b>Base Output Power</b>				
100	106	142	211	27
75	80	107	212	20
50	53	71	219	14
25	27	36	248	8
<b>Continuous Power</b>				
100	56	75	218	15



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		<b>ENGINE FAMILY</b> <b>D40</b>	<b>CPL</b> <b>2697</b>	<b>2006/11</b>

### Typical engine data

Net weight	kg	453
Rotate part instantaneous inertia _ without flywheel	kg.m <sup>2</sup>	0.25
Distance between gravity center and rear surface of cylinder block	mm	391
Distance between gravity center and center line above of crankshaft	mm	140

### Engine installation

Static bent torque permitted—rear surface of cylinder block	N.m	1356
Static bent torque permitted—front surface of cylinder block	N.m	435
Static bent torque permitted—flank surface of cylinder block	N.m	365

### Exhaust system

Max. back pressure	mmHg	76
Diameter of exhaust pipe recommended	mm	75

### Air intake system

Max. air intake resistance		
Dirty filter	mmH <sub>2</sub> O	635
Normal air cleaner and clean filter	mmH <sub>2</sub> O	254
Heavy duty cleaner and clean filter	mmH <sub>2</sub> O	381
Diameter of intake pipe recommended	mm	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	16.3
Usage inclining degree permitted (any direction)	°	40

### Fuel system

Fuel injection pump model	PB pump _ GAC governor / BYC ASIMCO	
Max. fuel input resistance of transfer pump	mmHg	102
Max. overflow fuel resistance at overflow pipe of injector	mmHg	508
Total fuel overflow amount	L/h	30

### Cooling system

Coolant capacity-engine only	L	10
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 92306

	<b>Base output Power</b>	<b>Standby Power</b>
Engine speed _ RPM	1500	1500
Output Power _ kW	106	116

Torque _ Nm	675	739
Low idle _ RPM	750-850	750-850
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	N/A	N/A
Exhaust flow _ L/sec	N/A	N/A
Exhaust temperature _ °C	540	570
Environment energy output _ kW	N/A	N/A
Coolant energy output _ kW	63	67.5
Fuel energy output _ kW	N/A	N/A

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

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

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