CUMMINS ENGINE DATASHEET

ENGINE MODEL: 4BT3.9-G2

PERFORMANCE CURVE: FR L003



Cururnins	ENGINE DATASHEET—for G-drive			ENGINE MODEL 4BT3.9-G2		FREFORMANCE CURVE FR L003
				ENGINE FAMILY D38	CPL PP L005	2006/04
Displacement	3.9 L	Air intake way	turbo-charged	200	11 2000	
Cylinder bore	102 mm	Cylinder quantity	4	kW	(BHP)	@RPM
Stroke	120 mm			30	6(48)	1500
Fuel system	A pump _ (GAC governor/ BYC	ASIMCO	Speed-droop		5%

Testing condition: air intake resistance 250 mmHg, exhaust back pressure 50 mmHg.						
Engine	Standby	y Power	Base Out	put Power	Continuo	us Power
Speed-RPM	kW	HP	kW	HP	kW	HP

48

36

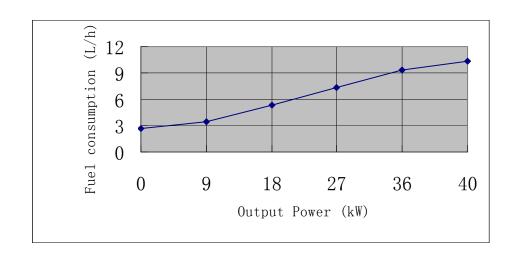
Engine testing with fuel system, water pump and oil pump, without air compressor, alternator, fan, other options and driving accessory.

Output Power			Fuel consumption		
%	kW	HP	g/kW.h	L/h	
Standby Pov	ver				
100	40	54	212	10.3	
Base Output Power					
100	36	48	214	9.3	
75	27	36	223	7.3	
50	18	24	244	5.3	
25	9	12	312	3.4	
Continuous	Power				
N/A	N/A	N/A	N/A	N/A	

40

1500

54



N/A

N/A

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	ENGINE DATASHEET—IOI G-UIIVE	ENGINE FAMILY D38	CPL PP L005	2006/04	
Typical engi	ne data				
Net weight			kg	321	
Rotate part in	nstantaneous inertia _ without flywheel		kg.m2	0.143	
	ween gravity center and rear surface of cylinder block		mm	373	
Distance bety	ween gravity center and center line above of crankshaft		mm	163	
Engine insta	ıllation				
Static bent to	rque permitted—rear surface of cylinder block		N.m	1356	
Static bent to	rque permitted—front surface of cylinder block		N.m	435	
Static bent to	rque permitted—flank surface of cylinder block		N.m	365	
Exhaust sys	tem				
Max. back pr	essure		mmHg	76	
Diameter of e	exhaust pipe recommended		mm	75	
Air intake sy	vstem				
Max. air intak					
Dirty filter			mmH2O	635	
Normal air cle	eaner and clean filter		mmH2O	254	
Heavy duty c	leaner and clean filter		mmH2O	381	

Lubrication system

Normal oil pressure range

Diameter of intake pipe recommended

mm

75

Low idle	kPa	207
Rated speed	kPa	345
Max. oil temperature permitted in oil pan	${\mathbb C}$	121
Oil pan capacity (Max _ Min)	L	9.5_8.5
Lubrication system Min. capacity (oil pan + oil filter)	L	10.9
Usage inclining degree permitted (any direction)	0	40
Fuel system		
Fuel injection pump model	BYC A pump with	h GAC governor
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	30
Cooling system		
Coolant capacity-engine only	L	7.2
Max. coolant cycling resistance exterior engine	kPa	28
Thermostat adjusting temperature (range)	${\mathbb C}$	82_95
Min. opening pressure of radiator cap	kPa	69
Max. coolant temperature permitted _ Standby Power/Base output Power	${}^{\mathbb{C}}$	104/100
Electric system		
Starter	12V	24V
Battery charging system	63A	40A
Max. starting circuit resistance	0.00075Ω	0.002Ω
Min. battery capacity12°C (CCA: Cold Cranking Ampere)	625CCA	312CCA
Technical data _ under standard fuel delivery rate FR L003	Base output Power	Standby Power
Engine speed _ RPM	1500	1500
Output Power _ kW	36	40

Torque _ Nm	229	255
Low idle _ RPM	950-1050	950-1050
Friction energy output _ kW	8.2	8.2
Piston speed _ m/s	6.0	6.0
Engine coolant flow _ L/sec	2.2	2.2
Air intake flow _ L/sec	43.6	44.9
Exhaust flow _ L/sec	101	108
Exhaust temperature _ °C	463	487
Environment energy output _ kW	N/A	N/A
Coolant energy output _ kW	25.9	29
Fuel energy output kW	N/A	N/A

All data's error within ±5%.

Excuse for none notice anymore in case of data changed