



CHONGQING CUMMINS ENGINE COMPANY LTD. ENGINE PERFORMANCE CURVE

CONFIGURATION
D233019DX02

ENGINE MODEL: KTA38-G1

CURVE NUMBER: FR-6080

CPL No.: 0851

DATE: 2013/6/25

Displacement: 38L

(2300)

Aspiration: Turbocharged, Aftercooled

RATING

BoreXStroke: 159X159mm

(6.25X6.25 in.)

Fuel System: Cummins PT

847 kW(1135 BHP)@1800r/min

Compress Ratio: 14.5:1

No. of Cylinder: V-12

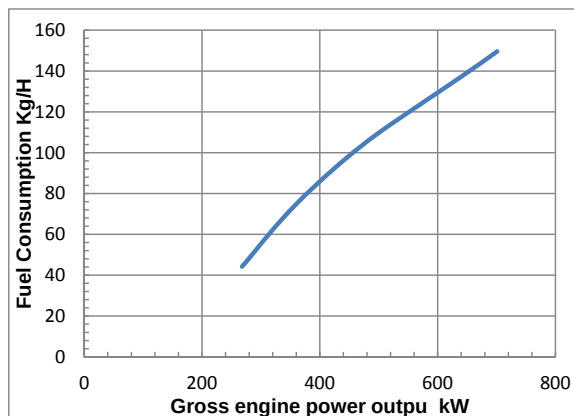
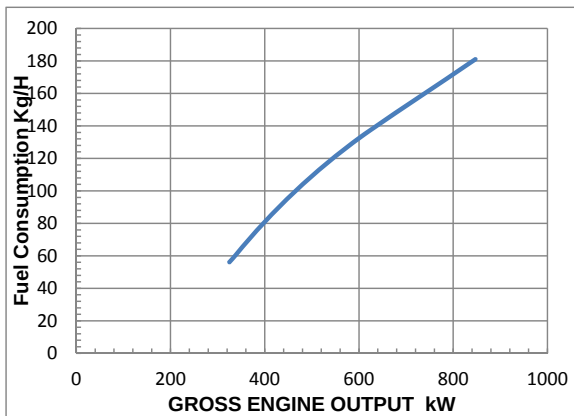
701 kW(940 BHP)@1500r/min

All data is based on the engine operating with fuel system, water pump, and 20 in. H₂O(4.98kPa) inlet air restriction with 5.8 in.(147mm) inner diameter, and with 2 in. Hg(7kPa) exhaust restriction with 8 in.(203mm) inner diameter; not included are alternator, fan, optional equipment and driven components. Coolant flows and heat rejection data based on coolant as 50% ethylene glycol/50% water. All data is subject to change without notice.

GROSS ENGINE POWER OUTPUT

SPEED rpm	STANDBY POWER		PRIME POWER		CONTINUOUS POWER	
	BHP	kW	BHP	kW	BHP	kW
1800	1135	847	1030	769	900	672
1500	940	701	850	634	810	604

FUEL CONSUMPTION



OUTPUT POWER			CONSUMPTION		BFSC	
%	BHP	kW	Lb/h	Kg/h	g/kW.h	Lb/BHP.h
1800RPM						
STNADBY						
100	1135	847	399	181	214	0.352
PRIME						
100	1030	769	365	166	216	0.355
75	773	577	281	128	221	0.364
50	580	433	201	91	210	0.346
25	435	325	124	56	173	0.284
CONTINUOUS						
100	900	672	0	0	0	0.000
1500RPM						
STANDBY						
100	940	701	330	150	213	0.351
PRIME						
100	850	634	300	136	215	0.353
75	638	476	230	105	220	0.361
50	479	357	163	74	207	0.340
25	359	268	97	44	165	0.271
CONTINUOUS						
100	810	604	0	0	0	0.000

Curves shown above represent gross engine performance capabilities obtained and corrected in accordance with SAE J1995 conditions of 29.61 in. Hg(100kPa) barometric pressure [300ft.(91m) altitude] 77deg F (25 deg C) inlet temperature, and 0.30 in. Hg(1kPa) water vapor pressure with No.2 diesel fuel.

TECHNICAL DATA DEPT.

CERTIFIED WITHIN 5%

CHIEF ENGINEER

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