



## CHONGQING CUMMINS ENGINE COMPANY LTD. ENGINE PERFORMANCE CURVE

CONFIGURATION  
D233020DX02

ENGINE MODEL: KTA38-G2A

CURVE NUMBER: FR-6925

CPL No.: 3660

DATE: 2013/6/25

Displacement: 38L

(2300)

Aspiration: Turbocharged , Aftercooled

RATING

BoreXStroke: 159X159mm

(6.25X6.25 in.)

Fuel System: Cummins PT

1007 kW(1350 BHP)@1800r/min

Compress Ratio: 14.5:1

No. of Cylinder: V-12

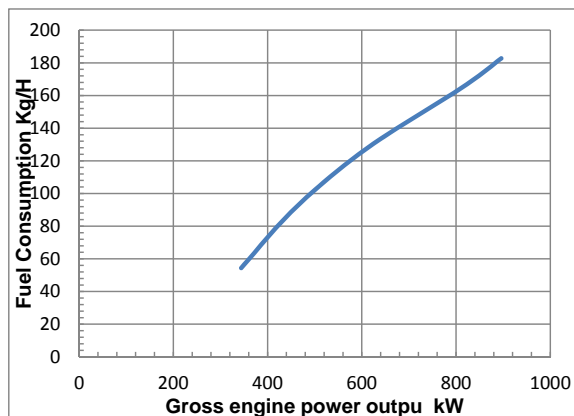
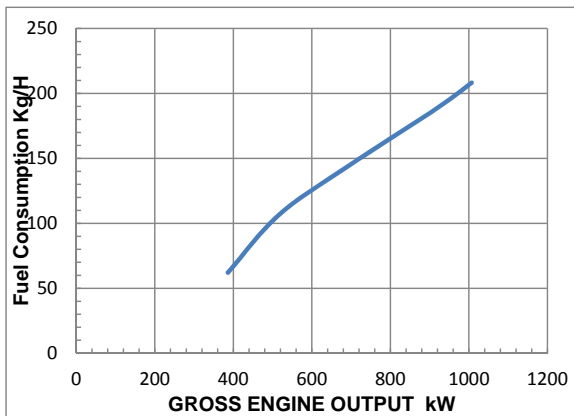
896 kW(1200 BHP)@1500r/min

All data is based on the engine operating with fuel system, water pump, and 20 in. H<sub>2</sub>O(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	1350	1007	1226	915		
1500	1200	896	1090	813		

### FUEL CONSUMPTION



OUTPUT POWER			CONSUMPTION		BFSC	
%	BHP	kW	Lb/h	Kg/h	g/kW.h	Lb/BHP.h
1800RPM						
STANDBY						
100	1350	1007	459	208	207	0.340
PRIME						
100	1226	915	414	188	205	0.338
75	920	686	315	143	208	0.342
50	690	515	234	106	206	0.339
25	518	386	137	62	161	0.264
1500RPM						
STANDBY						
100	1200	896	403	183	204	0.336
PRIME						
100	1090	813	364	165	203	0.334
75	818	610	281	128	209	0.344
50	614	458	201	91	199	0.327
25	461	344	120	54	158	0.260

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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