



Stationary Pump Engine Performance Data  
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**6CTA8.3-P230**

**170 kW @ 1800 r/min**

**FR96000**

CPL Code  
**CPL0399**

Revision  
**2017/4/17**

Version  
**00**

Displacement: 8.3L

Aspiration: Turbocharged & Aftercooled

Application: Stationary Pump

Fuel System: Mechanical Pump + Electronical Governor

All data is based on the engine operating without air compressor, fan, generator, fan, optional equipment and driven components .

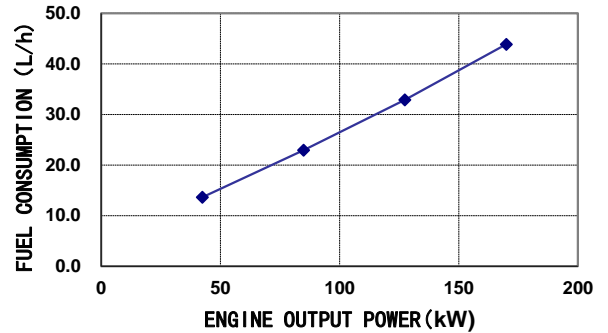
All data is based on the engine operating with 3.7 kPa inlet air restriction , 10 kPa exhaust restriction

Curves shown above represent gross engine performance capabilities obtained and corrected in accordance with GB/T18297 conditions of 99kPa baiometric press. 298K inlet air temperature, and 1kPa water vapor pressure .

**Performance curve**

**1500rpm Engine performance data**

ENGINE OUTPUT POWER			FUEL CONSUMPTION	
%	kW	Ps	g/kW.h	L/h
100	170	231	213	43.9
75	127.5	173	213	32.9
50	85	116	223	23.0
25	42.5	58	265	13.7



**General Performance Data**

Low idle speed:	800±50	rpm
Maximum no load speed:	1890±20	rpm
Maximum overspeed capability(15sec max):	2900	rpm
Maximum altitude limit for continuous running:	1500	m
* Above 1500m, power derated 4% per 300m		
Cold start capability(Sea Level without Load)		
Without start add device:	-12	°C
With air intake preheating:	-35	°C
Cold start capability(Sea Level with Load)*		
Max parasitic load at 0°C @ 500r/min without Aid:	NA	N.m
Max parasitic load at -15°C @ 500r/min without Aid:	NA	N.m

\* The data measured at 101kPa atmospheric pressure, crank speed 120r/min, Engine use 5W40 lube oil and diesel refer to GB19147

**Performance data**

Parameter	Advertised Power
Engine Speed(rpm)	1800
Output Power(kW)	170
Torque(N.m)	902
Inlet air flow(L/s)	226
Charge air flow(kg/min)	1050
Exhaust gas flow(kg/min)	1051
Exhaust gas temperature(deg C)	500
Heat rejection to coolant(kW)	107
Radiator coolant flow(L/min)	240
Heat rejection to charge air cooler(kW)	NA
Turbo Comp.Outlet Pressure(kPa)	195
Temperature(deg C)	185
Fuel Consumption(kg/hr)	36