



Stationary Pump Engine Performance Data
DONGFENG CUMMINS ENGINE Co.,LTD
 XiangYang, Hubei Province, China
 www.cumminspowerunits.com

6CTA8.3-P220

163 kW @ 1500 r/min

FR95999

**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 .

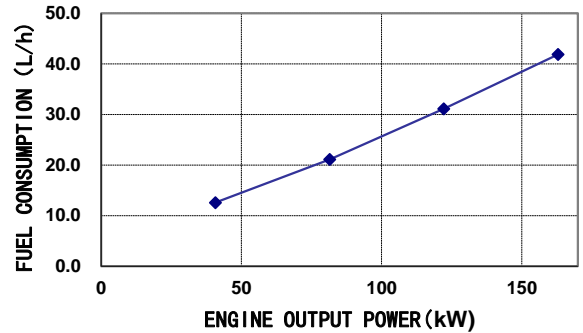
All data is based on the engine operating with 3.7 kPa inlet air restriction , 10 kPa exhaust restriction

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	163	222	212	41.9
75	122.25	166	210	31.1
50	81.5	111	214	21.1
25	40.75	55	255	12.6



General Performance Data

Low idle speed:	800±50	rpm
Maximum no load speed:	1575±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)	1500
Output Power(kW)	163
Torque(N.m)	1038
Inlet air flow(L/s)	189
Charge air flow(kg/min)	880
Exhaust gas flow(kg/min)	881
Exhaust gas temperature(deg C)	536
Heat rejection to coolant(kW)	83
Radiator coolant flow(L/min)	198
Heat rejection to charge air cooler(kW)	NA
Turbo Comp.Outlet Pressure(kPa)	150
Temperature(deg C)	155
Fuel Consumption(kg/hr)	35