



Stationary Pump Engine Performance Data

DONGFENG CUMMINS ENGINE Co.,LTD

XiangYang, Hubei Province, China  
www.cumminspowerunits.com

**4BTA3.9-P80**

**58 kW @ 1500 r/min**

**FR95993**

**CPL Code  
CPL3813**

**Revision  
2017/4/17**

**Version  
00**

Displacement: 3.9L

Aspiration: Turbocharged & Aftercooled

Application: Stationary Fire Pump

Fuel System: Direct Injection + 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 and with 13 kPa Inter-cooled implement differential pressure

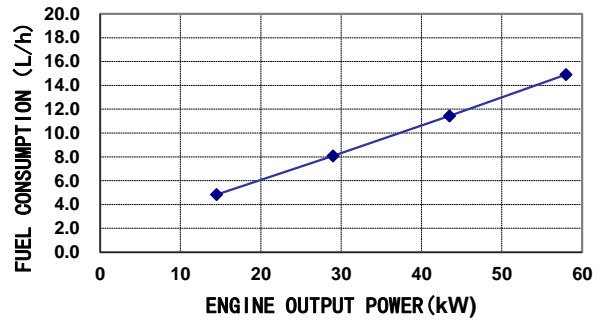
Curves shown above represent gross engine performance capabilities obtained and corrected in accordance with GB/T18297 of 99kPa baiometric press. 298K inlet air temperature, and 1kPa water vapor pressure .

**Performance curve**

Engine speed	Rated power	
	kW	Ps
1500	58	79

**1500rpm Engine performance data**

ENGINE OUTPUT POWER			FUEL CONSUMPTION	
%	kW	Ps	g/kW.h	L/h
100	58	79	212	14.9
75	43.5	59	217	11.4
50	29	39	230	8.1
25	14.5	20	275	4.8





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**General Performance Data**

Low idle speed:	1000±50	rpm
Maximum no load speed:	1575±20	rpm
Maximum overspeed capability(15sec max):	3100	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)	58
Torque(N.m)	369
Inlet air flow(L/s)	55
Charge air flow(kg/min)	270
Exhaust gas flow(kg/min)	270.21
Exhaust gas temperature(deg C)	535
Heat rejection to coolant(kW)	29.0
Radiator coolant flow(L/min)	96.0
Heat rejection to charge air cooler(kW)	NA
Turbo Comp.Outlet Pressure(kPa)	70
Temperature(deg C)	100
Fuel Consumption(kg/hr)	12.3