



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

4BTA3.9-P90

67 kW @ 1800 r/min

FR95994

CPL Code
CPL3813

Revision
2017/4/17

Version
00

Displacement: 3.9L

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 .

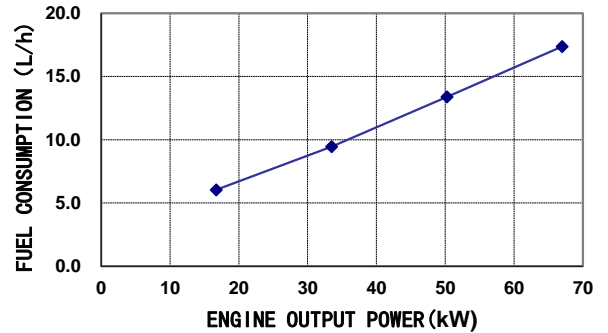
All data is based on the engine operating with 3.7 kPa inlet air restriction , 10 kPa exhaust restriction

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	67	91	214	17.4
75	50.25	68	220	13.4
50	33.5	46	233	9.5
25	16.75	23	298	6.1



General Performance Data

Low idle speed:	1000±50	rpm
Maximum no load speed:	1890±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)	1800
Output Power(kW)	67
Torque(N.m)	355
Inlet air flow(L/s)	78
Charge air flow(kg/min)	400
Exhaust gas flow(kg/min)	400
Exhaust gas temperature(deg C)	510
Heat rejection to coolant(kW)	33
Radiator coolant flow(L/min)	132
Heat rejection to charge air cooler(kW)	NA
Turbo Comp.Outlet Pressure(kPa)	105
Temperature(deg C)	125
Fuel Consumption(kg/hr)	14.4