



Stationary Pump Engine Performance Data

DONGFENG CUMMINS ENGINE Co.,LTD

XiangYang, Hubei Province, China
www.cumminspowerunits.com

QSB3.9-P80

FR96104

60 kW @ 2900 r/min
360 N.m @ 1200 r/min

CPL Code
CPL4854

Revision
2017/4/25

Version
00

Displacement: 3.9L

Aspiration: Turbocharged & Charge Air Cooled

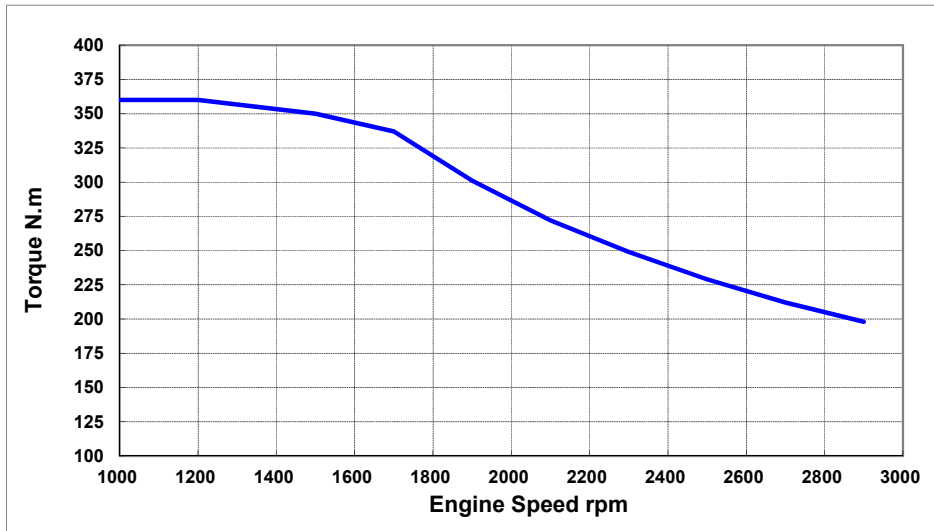
Application: Stationary Fire Pump

Fuel System: HPCR

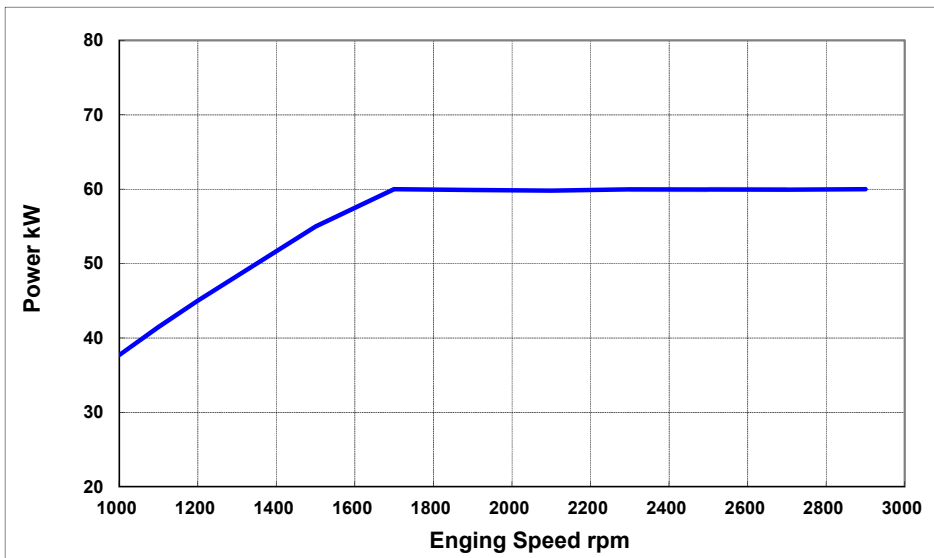
All data is based on the engine operating without air compressor, fan, generator, fan, optional equipment and driven components .
All data is based on the engine operating with 3.7 kPa inlet air restriction , 10 kPa exhaust restriction and with 13 kPa Inter-cooled implement differential pressure

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 .

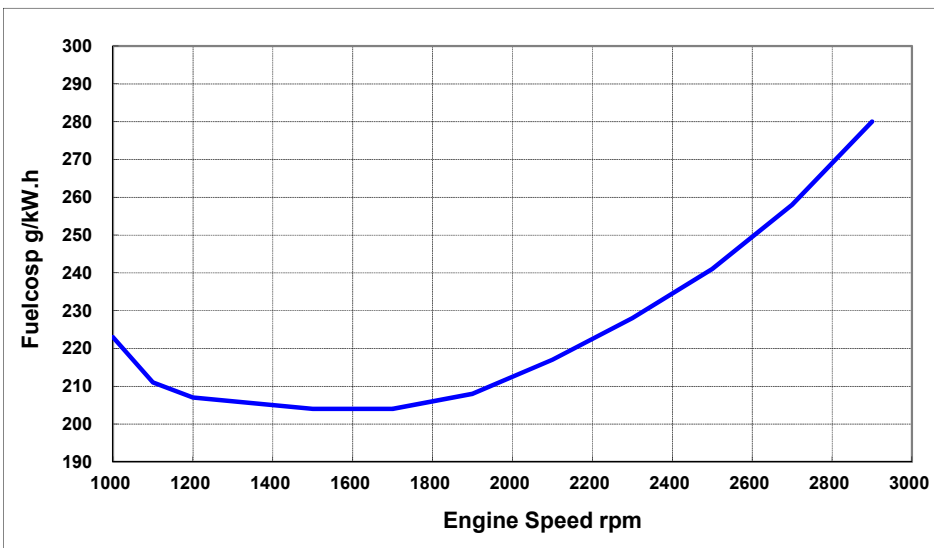
Performance curve



Torque	
rpm	N.m
2900	198
2700	212
2500	229
2300	249
2100	272
1900	301
1700	337
1500	350
1200	360
1100	360
1000	360



Power	
rpm	kW
2900	60
2700	60
2500	60
2300	60
2100	60
1900	60
1700	60
1500	55
1200	45
1100	41
1000	38



Fuelcosp	
rpm	g/kW.h
2900	280
2700	258
2500	241
2300	228
2100	217
1900	208
1700	204
1500	204
1200	207
1100	211
1000	223



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General Performance Data

Low idle speed:	1000±50	rpm
Maximum no load speed:	3000±20	rpm
Maximum overspeed capability(15sec max):	3300	rpm
When 0% gas pedal loading capacity@1000rpm :	360	N.m
Maximum altitude limit for continuous running:	2000	m
Minimum Pump Inlet Pressure:	6	kPa
Cold start capability(Sea Level without Load)		
Without start add device:	NA	°C
With air intake preheating:	NA	°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	Peak Torque	Low Speed
Engine Speed(rpm)	2900	1200	1000
Output Power(kW)	60	45	38
Torque(N.m)	198	360	360
Inlet air flow(L/s)	148.6	44.8	33.6
Charge air flow(kg/min)	11.5	3.47	2.60
Exhaust gas flow(kg/min)	11.78	3.63	2.74
Exhaust gas temperature(deg C)	362	464	504
Heat rejection to coolant(kW)	50.0	38.0	38.0
Radiator coolant flow(L/min)	350.0	193.0	181.0
Heat rejection to charge air cooler(kW)	20.0	2.0	1.4
Turbo Comp.Outlet Pressure(kPa)	145	48	35
Temperature(deg C)	151	72	60
Fuel Consumption(kg/hr)	16.8	9.3	8.5