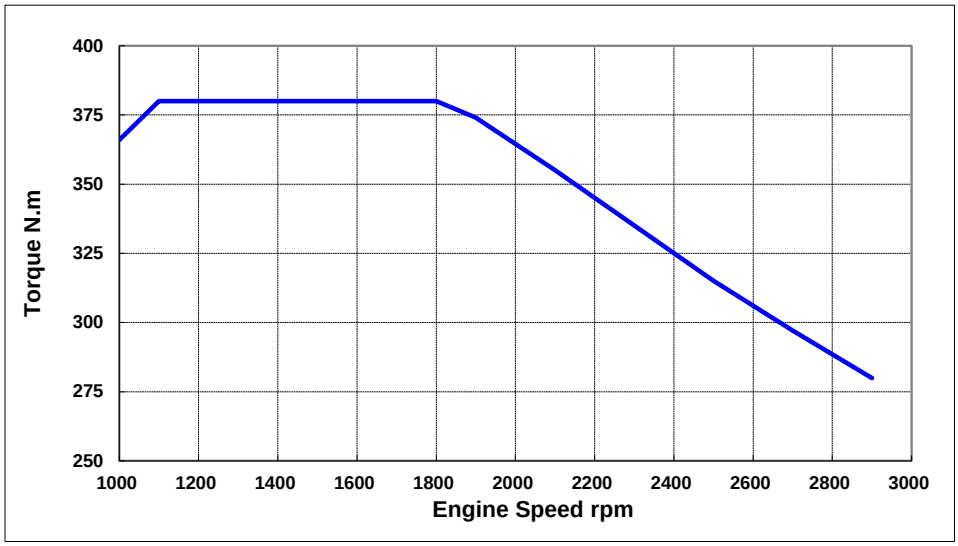
Stationary Pump Engine Performance Data DONGFENG CUMMINS ENGINE Co.,LTD XiangYang, Hubei Province, China http://www.dcec.com.cn	QSB3.9-P115	85 kW @ 2900 r/min 380 N.m @1800 r/min		
	FR96015	CPL Code CPL4854	Revision 2017/4/14	Version 00

Displacement: 3.9L Aspiration: Turbocharged & Charge Air Cooled

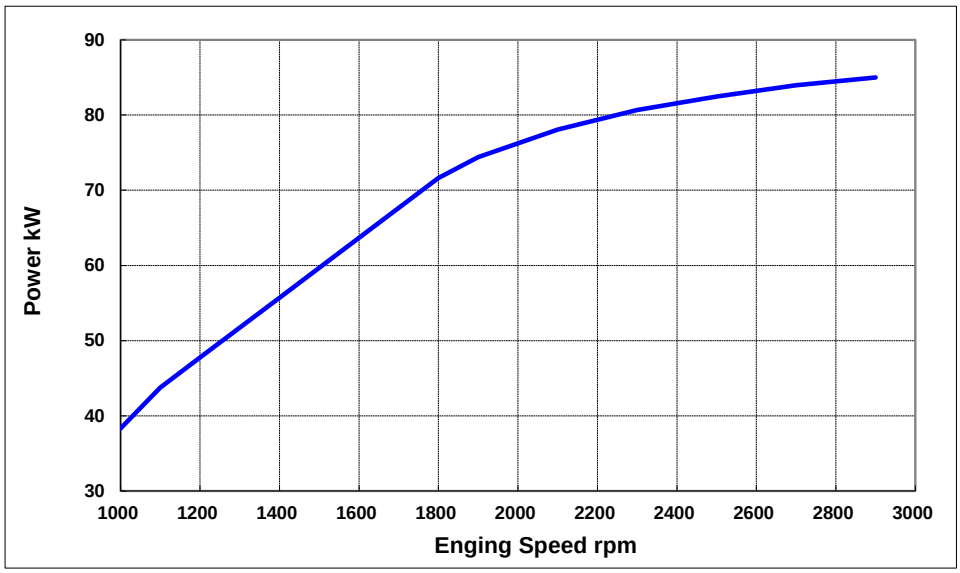
Application: Stationary Fire Pump Fuel System: HPCR

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 .

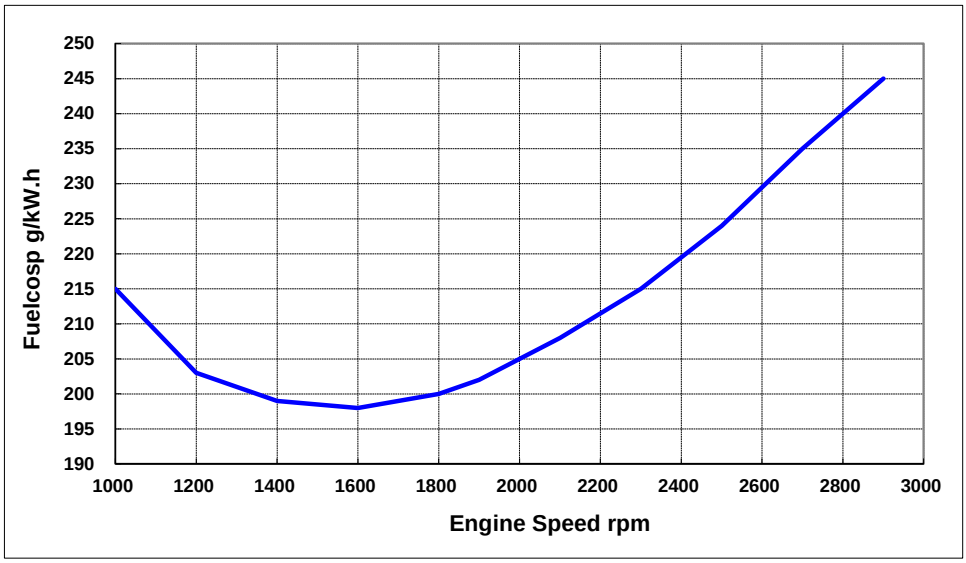
Performance curve



Torque	
rpm	N.m
2900	280
2700	297
2500	315
2300	335
2100	355
1900	374
1800	380
1600	380
1400	380
1200	380
1100	380
1000	366



Power	
rpm	kW
2900	85
2700	84
2500	82
2300	81
2100	78
1900	74
1800	72
1600	64
1400	56
1200	48
1100	44
1000	38



Fuelcosp	
rpm	g/kW.h
2900	245
2700	235
2500	224
2300	215
2100	208
1900	202
1800	200
1600	198
1400	199
1200	203
1100	209
1000	215

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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 :	366	N.m
Maximum altitude limit for continious running:	2000	m
Minimum Pump Inlet Pressure:	6	kPa
Cold start capability(Sea Level without Load)		
Without start add device:	NA	℃
With air intake preheating:	NA	℃
Cold start capability(Sea Level with Load)*		
Max parasitic load at 0℃ @ 500r/min without Aid:	NA	N.m
Max parasitic load at -15℃ @ 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	1800	1000
Output Power(kW)	85	72	38
Torque(N.m)	280	380	366
Inlet air flow(L/s)	146	98	33
Charge air flow(kg/min)	11.31	7.58	2.53
Exhaust gas flow(kg/min)	11.66	7.82	2.67
Exhaust gas temperature(deg C)	449	371	518
Heat rejection to coolant(kW)	59.5	41.3	33.9
Radiator coolant flow(L/min)	329.6	223.1	160.6
Heat rejection to charge air cooler(k	19.1	10.5	1.2
Turbo Comp.Outlet Pressure(kPa)	149	126	33
Temperature(deg C)	149	127	59
Fuel Consumption(kg/hr)	20.8	14.4	8.2