

Stationary Pump Engine Performance Data

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Application: Stationary Pump

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QSB3.9-P110

79 kW @ 1500 r/min

FR95856 CPL Code CPL4854 Revision 2017/4/25

Version 00

Displacement: 3.9L

Aspiration: Turbocharged & Charge air cooled

Fuel System: HPCR

All data is based on the engine operating without air compressor, fan, generator, fan, optional equipment and driven components .

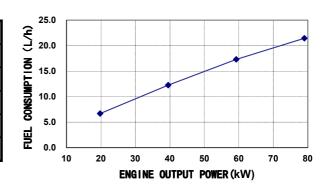
All data is based on the engine operating with 3.7 kPa inlet air restriction, 10 kPa exhaust restriction

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	79	110	224	21.4
75	59	83	241	17.3
50	40	55	256	12.3
25	20	28	279	6.7



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 continious running:	4000	m
Cold start capability(Sea Level without Load)		
Without start add device:	-15	$^{\circ}\!\mathbb{C}$
With air intake preheating:	-35	$^{\circ}\!\mathbb{C}$
Cold start capability(Sea Level with Load)*		
Max parasitic load at 0 ℃ @ 500r/min without Aid:	200	N.m
Max parasitic load at -15 °C @ 500r/min without Aid:	200	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)	79
Torque(N.m)	503
Inlet air flow(L/s)	98.2
Charge air flow(kg/min)	7.6
Exhaust gas flow(kg/min)	8
Exhaust gas temperature(deg C)	464
Heat rejection to coolant(kW)	30.4
Radiator coolant flow(L/min)	156
Heat rejection to charge air cooler(kW	14.6
Turbo Comp.Outlet Pressure(kPa)	153
Temperature(deg C)	156
Fuel Consumption(kg/hr)	12.3