



Stationary Pump Engine Performance Data
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QSB3.9-P80

63 kW @ 1500 r/min

FR95855

CPL Code
CPL4854

Revision
2017/4/25

Version
00

Displacement: 3.9L

Aspiration: Turbocharged & Charge air cooled

Application: Stationary Pump

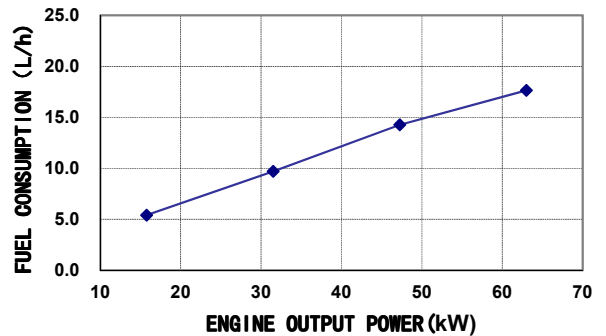
Fuel System: HPCR

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
 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	63	80	231	17.6
75	47	60	249	14.3
50	32	40	254	9.7
25	16	20	283	5.4



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:	4000	m
Cold start capability(Sea Level without Load)		
Without start add device:	-15	°C
With air intake preheating:	-35	°C
Cold start capability(Sea Level with Load)*		
Max parasitic load at 0°C @ 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)	63
Torque(N.m)	401
Inlet air flow(L/s)	87.0
Charge air flow(kg/min)	6.7
Exhaust gas flow(kg/min)	7
Exhaust gas temperature(deg C)	420
Heat rejection to coolant(kW)	28.4
Radiator coolant flow(L/min)	150
Heat rejection to charge air cooler(kW)	10.7
Turbo Comp.Outlet Pressure(kPa)	148
Temperature(deg C)	149
Fuel Consumption(kg/hr)	17.6