

Generator Engine Performance Data	Basic Engine Model:	<b>FR94625 @ 1500 RPM &amp; 1800RPM</b>		
	<b>4BTA3.9-G11</b>	Configuration	CPL Code	Revision
	<b>FR94625</b>	D383030DX02	CPL: 4562	2014/5/20

Compression Ratio:	<b>17.3:1</b>	Aspiration:	<b>Turbocharger &amp; Aftercooler</b>
Bore:	<b>102 mm</b>	Displacement:	<b>3.9 L</b>
Stroke:	<b>120 mm</b>	No. of Cylinders:	<b>4</b>
Emission Certification:		Fuel System:	<b>BYC PB/Electronic Governor</b>
Governor Regulation:	<b>≤5%</b>		

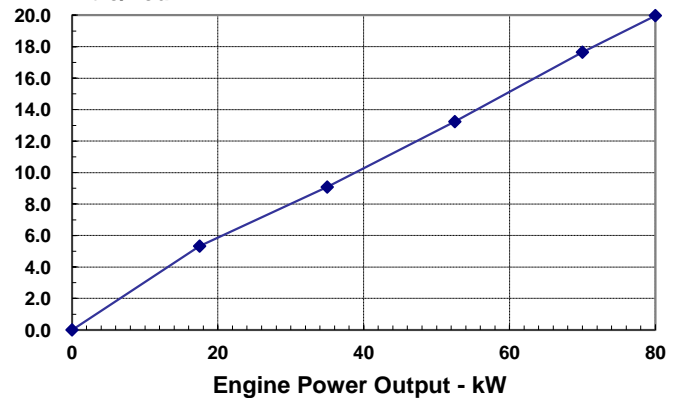
All data is based on the engine operating with fuel system, water pump, and 14.8 in H<sub>2</sub>O (3.7 kPa) inlet air restriction with 5.98 in (152mm) inner diameter, and with 2.95 in Hg (10 kPa) exhaust restriction with 4.02 in (102 mm) inner diameter; not included are alternator, fan, optional equipment and driven components. Coolant flows and heat rejection data based on coolants as 50% ethylene glycol/50% water. All data is subject to change without notice.

Engine Speed	Standby Power		Prime Power		Continuous Power		
	RPM	kW	HP	kW	HP	kW	HP
1500	80	107	70	93			
1800	90	120	80	107			

### Engine Performance Data @ 1500 RPM

OUTPUT POWER			FUEL CONSUMPTION	
%	kW	HP	g/kW.h	L/h
<b>STANDBY POWER</b>				
100	80	107	206	20.0
<b>PRIME POWER</b>				
100	70	93	208	17.6
75	52.5	70	208	13.2
50	35	47	214	9.1
25	17.5	23	251	5.3
<b>CONTINUOUS POWER</b>				

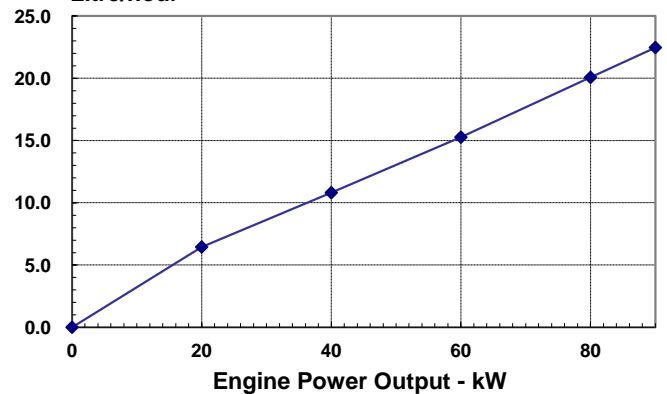
Litre/hour



### Engine Performance Data @ 1800 RPM

OUTPUT POWER			FUEL CONSUMPTION	
%	kW	HP	g/kW.h	L/h
<b>STANDBY POWER</b>				
100	90	120	206	22.5
<b>PRIME POWER</b>				
100	80	107	207	20.1
75	60	80	210	15.3
50	40	53	223	10.8
25	20	27	266	6.4
<b>CONTINUOUS POWER</b>				

Litre/hour



Curves shown above represent gross engine performance capabilities obtained and corrected in accordance with GB/T18297 conditions of 99kPa (29.61 in. Hg) barometric pressure, 25°C (77°F) inlet air temperature, and 1 kPa (0.30 in. Hg) water vapor pressure with No.0 diesel fuel.



**ELECTRICAL SYSTEM**

Cranking Motor (Heavy Duty, Positive Engagement).....	-volt	12V	24V
Battery Charging System, Negative Ground.....	-ampere	63	40
Maximum Allowable Resistance of Cranking Circuit.....	-ohm	0.00075	0.002
Minimum Recommended Battery Capacity			
—Cold Soak @ 0 to 32-F (-18 to 0-C).....	-0°F CCA	625	312

**EMISSIONS**

Gaseous Emissions per GB 20891-2007, at 1500rpm:

—Weight-Specific NOx.....	g/kW.h
—Weight-Specific HC.....	g/kW.h
—Weight-Specific CO.....	g/kW.h
—Weight-Specific Particulates.....	g/kW.h

Gaseous Emissions per GB 20891-2007, at 1800rpm:

—Weight-Specific NOx.....	g/kW.h
—Weight-Specific HC.....	g/kW.h
—Weight-Specific CO.....	g/kW.h
—Weight-Specific Particulates.....	g/kW.h

Fuel Rating Option used for these Data: **FR94625**

Governed Engine Speed.....	-rpm
Engine Idle Speed.....	-rpm
Gross Engine Power Output.....	-kW
Piston Speed.....	-m/s
Friction Horsepower.....	-kW
Engine Water Flow to Engine:.....	-litre/sec.
Intake Air Flow.....	-litre/sec.
Exhaust Gas Flow.....	-litre/sec.
Exhaust Gas Temperature.....	-°C
Radiated Heat to Ambient.....	-kW
Heat Rejection to Coolant.....	-kW
Heat Rejection to Fuel.....	-kW

STANDBY POWER		PRIME POWER	
1800	1500	1800	1500
950- 1050	950- 1050	950- 1050	950- 1050
90	80	80	70
7.2	6.0	7.2	6.0
8.2	8.2	8.2	8.2
TBD	TBD	TBD	TBD
101	70	93	64
210	134	188	125
405	548	393	526
TBD	TBD	TBD	TBD
TBD	TBD	TBD	TBD
TBD	TBD	TBD	TBD

N.A. = Not Available