



中国兵器  
第一机械

**河北华北柴油机有限责任公司**

**CNGC FIRMACO HEBEI HUABEI DIESEL ENGINE CO., LTD.**

华柴动力

# Huachai gen-set engine performance data



**华柴动力**  
**HUACHAI POWER**

**DEUTZ LICENSE FACTORY**

**Engine Model: BF6M1015-LA GA**



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Gen-set engine performance data	Engine Model: BF6M1015-LA GA	
Control System: mechanical /electronic	Displacement: 11.906L	No. of cylinder: 6
Aspiration Mode: Turbocharged	Cylinder Arrangement: V-form 90° angle	
Cylinder Type: One-cylinder-one-head	Inter-cooling Method: Without Intercooler	

### Rotation speed and power:

<b>Specification</b>	<b>Rotation Speed</b>	1500rpm 50Hz
	Power	231 kW
Effective pressure		15.5 bar
MAX. exhaust gas temperature		580 °C
Charge air temperature		160 °C
Inlet air (25 °C/1000m bar)		1027 m <sup>3</sup> /h
Emission		1252 kg/h
Notes: 1. While engine under testing, fan and generator not included. 2. According: ISO3046-1		

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<b>Engine Data:</b>		1500rpm
Dry weight	kg	850
Max. engine width	mm	932.2
Max. engine length	mm	1043.1
Bore	mm	132
Stroke	mm	145
Compression ratio		16.5
Rotation direction (View from flywheel)		Anti-clockwise
Flywheel housing		SAE1
Flywheel		14 "
No. of flywheel teeth		167
Engine support		Rigid
Max. noise value at 1m (left and right sides of engine)	dB(A)	≤93
Power decrease value: By increasing per 100m while exceeding an altitude of 1000m		≤0.90%
Power decrease value: By increasing per 10 °C while exceeding a temperature of 30 °C		≤6.5%
Battery voltage	V	24
Starter rated power	kW	9
Generator Capacity	A	55
Generator voltage	V	28.5
Max. exhaust backpressure	mbar	50
Max. allowable air inlet resistance	mbar	50
Turbocharger inlet size	mm	122
Turbocharger exhaust flange connect bolt		4×M10
Turbocharger exhaust flange inner diameter size	mm	117
<b>Lubrication system:</b>		
Min. oil pressure at 1500rpm (oil temperature 90°C)	bar	≥3
Min. oil pressure at 600rpm (oil temperature 90 °C)	bar	≥1
Oil consumption rate		<0.3% of fuel consumption
Oil pan		Flywheel side
Oil temperature of normal operation	°C	<130
Oil pan inclination	°	30
Initial oil filling	L	38
Oil filter element type		Disposable filter



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No. of oil filter element		1
<b>Cooling System:</b>		
Engine coolant capacity	L	17
Water-pump flow	L/min	260
Water-pump pressure	bar	1.25
Allowable pressure loss of cooling system (include pipeline)	bar	≤0.35
Heat carry off by coolant	kW	147
In & Outlet coolant size	mm	70
Temperature of switch on two thermostats respectively	°C	79/87
Temperature of switch on two thermostats totally	°C	94/102
Max. allowable operating temperature	°C	103
Temperature difference between inlet and outlet coolant	°C	≤8
Fan		Exhaust type
Fan connection		Gear drive + coupler
Fan diameter	mm	880
Air volume of fan	m <sup>3</sup> /s	4.6
Fan power consumption	kW	≤14
Fan transmission ratio		0.96
<b>Cold starting system:</b>		
Lowest ambient temperature of cold starting without assistant (standard configuration)	°C	-17
Lowest ambient temperature of cold starting with flame preheat plug	°C	-32
<b>Fuel System:</b>		
Cylinder ignition sequence		1-6-3-5-2-4
Idle speed	rpm	600±50
Low-pressure pump oil load capacity	L/h	190
Fuel filter element type		Disposable filter
No. of the fuel filter element		2