

Model:DB-80GF Powered by Weichai



Applicable Standards	Factory Inspection
ISO9001	Complete design and quality inspection
ISO14001	0% , 25%, 50%, 75%, 100%, 110% load test
ISO45001	Function test
CE	

80KW 100KVA Diesel Generator Set Datasheet		
Genset model	DB-80GF	
Prime power	80kW	
	100kVA	
Standby power	88kW	
	110kVA	
Rated voltage(V)	400/230 (customizable)	
Rate current(A)	144A	
Power factor	0.8	
Frequency(Hz)	50	
Speed(rpm)	1500	
Phase:	3 phase 4 wire	
Noise level:	105dB at 7m (open type diesel genset)	
	75dB at 7m(silent type diesel genset)	

Environmental Conditions

Ambient temperature: $+5^{\circ}$ C~ $+40^{\circ}$ C

Altitude: ≤1000m

Remark: If your conditions are different from the above, please contact our sales.

Туре	Dimensions(mm) L*W*H	Weight(kg)	Base bottom fuel tank (Liter)
Open Type	2100*950*1500	1150	Without
Silent Type	3000*1240*1790	2050	8 hours

Remark: The dimensions and weight of the above diesel generator set are for reference only, and the specific dimensions and weight of the genset after production completion shall prevail.



Engine Specifications

Manufacturer	Weichai
Model	WP4.1D100E200
Engine output-prime	90kW
Engine output-standby	100kW
Frequency:	50Hz
Speed:	1500rpm
Cylinders no. & Type:	4 cylinders, Inline, 4 stroke, diesel engine, water-cooled
Aspiration:	Turbocharged&Intercooling
Bore*stroke	105*118mm
Displacement	4.087L
Compression Ratio	17.5:1
Governor	Electronic speed governor
Starter motor voltage:	24V DC
Type Injection System:	direct injection
Battery charger current	18A
Oil pan capacity:	13L
Cooling way	Water Radiator & fan
Coolant capacity of the engine:	9.4L
Thermostat opening temperature/full open temperature	76/89°C
Max. fuel inlet temperature	70°C
Min. diameter of inlet pipe	12mm

Heavy duty diesel engine

- Anti-vibration mount
- Replaceable fuel filter, oil filter & air filter
- Flexible fuel connection hoses Exhaust silencer and bellows
- Cooling radiator and fan
- Operation manuals and circuit diagram documents

Starter battery (with lead acid, free-maintenance)

Alternator Specifications

Alternator brand optional	Stamford/Leroy Somer/Marathon/ENGGA
Rated Voltage(V)	400/230
Output way	3 phase 4 wire
Rated power factor	0.8
Exciter	Brushless, Self-exciter
Wire connecting method	Y type, 3 phase 4 wire
Max voltage regulation	$\pm 1\%$
Protection class	IP23
Insulation class	Н
Temperature rise grade:	Н
Rotor:	Single/double bearing
Efficiency:	95%
Regulator:	AVR
Recovery time(Tr)	1s
Waveform : TIF	<50
Waveform : THF	<2%
Туре:	Synchronous alternator
Overload	110% rated load for 2 hour per 24 hour

Control System

Model:SmartGen HGM6110(optional Deep Sea)

Origin: China

Automatic controller

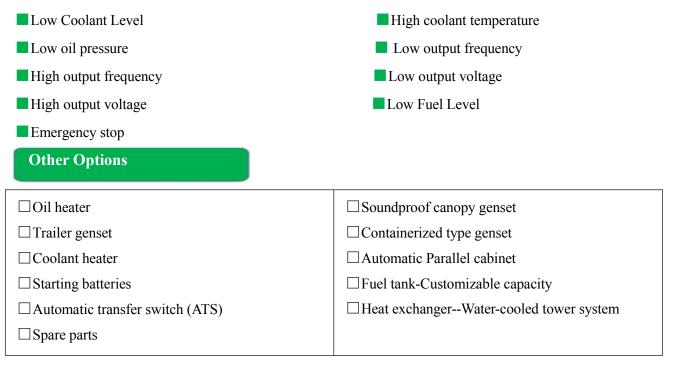


Operating Environment		
Operating temperature:	-25°C~70°C	
Relative humidity:	95%	
Operating voltage:	DC24V(range: 8-35V)	

Product Features:

HGM6110 series automatic controller, integrating digital, intelligent and network techniques, is used for automatic control and monitoring system of genset. It can carry out functions of automatic start/stop, data measurement, alarm protection and three "remote" (remote control, remote measure and remote communication). The controller uses LCD display, optional display interface including Chinese, English, Spanish, Russian, Portuguese, Turkey, Polish and French with easy and reliable operation.

Below shut down causes are included:



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