

## Model:DB-460GF Powered by Weichai



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

460KW 575KVA Diesel Generator Set Datasheet		
Genset model	DB-460GF	
Prime power	460kW	
	575kVA	
Standby power	506kW	
	633kVA	
Rated voltage(V)	400/230 (customizable)	
Rate current(A)	828A	
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	3700*1600*2100	4350	Without
Silent Type	4700*2100*2450	6800	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	6M33D572E200
Engine output-prime	520kW
Engine output-standby	572kW
Frequency:	50Hz
Speed:	1500rpm
Cylinders no. & Type:	6 cylinders, L Type, 4 stroke, diesel engine, water-cooled
Aspiration:	Turbocharging and intercooling
Bore*stroke	150*185mm
Displacement	19.6L
Compression Ratio	15:1
Governor	Electronic speed governor
Starter motor voltage:	24V DC
Type Injection System:	direct injection
Oil capacity (Low / High):	36L/61L
Cooling way	Water Radiator & fan
Coolant capacity of the engine:	43.93L
Thermostat opening temperature/full open temperature:	80/92°C
Max. fuel inlet temperature:	70°C
Fuel supply flow-Rated working condition:	105.2kg/h
Fuel supply flow-Overload working condition:	116.8kg/h

Heavy duty diesel engine

Anti-vibration mount

- Replaceable fuel filter, oil filter & air filter
- Cooling radiator and fan

# Flexible fuel connection hosesExhaust silencer and bellows

Starter battery (with lead acid, free-maintenance)

Operation manuals and circuit diagram documents

### 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	±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

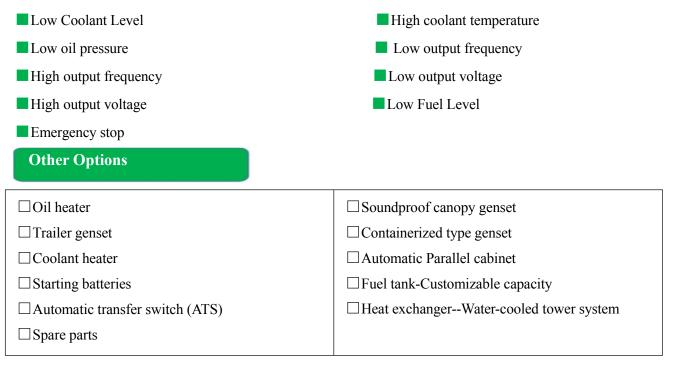


Operating Environment		
Operating temperature:	-25°C~70°C	
Relative humidity:	95%	
Operating voltage:	DC24V(range: 8-35V)	

#### **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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