

# Model:DB-22GF Powered by Cummins



## **Applicable Standards**

- ISO9001
- ISO14001
- ISO45001
- CE

# **Factory Inspection**

Complete design and quality inspection

- **0**%, 25%, 50%, 75%, 100%, 110% load test
- Function test

22KW 27KVA Diesel Generator Set Specifications		
Genset model	DB-22GF	
Prime power	22kW	
-	27kVA	
Standby power	24kW	
	30kVA	
Rated voltage(V)	400/230 (customizable)	
Rate current(A)	40A	
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° 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	1650*800*1300	760	Without
Silent Type	2200*940*1530	1150	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	Dongfeng Cummins Engine Co.,Ltd	
Model	4B3.9-G1	
Engine output-prime	24kW	
Engine output-standby	27kW	
Frequency:	50Hz	
Speed:	1500rpm	
Cylinders no. & Type:	4 cylinders, Inline, 4 stroke, diesel engine,	
	water-cooled	
Aspiration:	Naturally Aspirated	
Bore*stroke	102*120mm	
Displacement	3.9L	
Compression Ratio	17.3:1	
Governor	Electronic speed governor	
Starter motor voltage:	24V DC	
Type Injection System:	direct injection	
Maximum Oil Temperature	121°C	
Minimum Required Lube System Capacity - Sump	10.9L	
plus Filters		
Cooling way	Water Radiator & fan	
Coolant Capacity - Engine Only	7.2L	
Standard Thermostat	83-95°C	
Fuel consumption-standby power (100%)	8.0L/h	
Fuel consumption-prime power (100%)	7.1L/h	
Fuel consumption-prime power (75%)	5.7L/h	
Fuel consumption-prime power (50%)	4.3L/h	
Fuel consumption-prime power (25%)	2.8L/h	

Heavy duty diesel engine

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

- Starter battery (with lead acid, free-maintenance)
- Flexible fuel connection hoses
- Exhaust silencer and bellows
- 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	$\pm 1\%$
Protection class	IP23
Insulation class	Н
Rotor:	Single/double bearing
Efficiency:	95%
Regulator:	AVR
Recovery time(Tr)	1s
Waveform : TIF	<50
Waveform : THF	<2%
Overload	110% rated load for 2 hour per 24 hour

**Control System** 

### Model:SmartGen HGM6110(optional Deep Sea)

**Origin: China** 

**Automatic controller** 

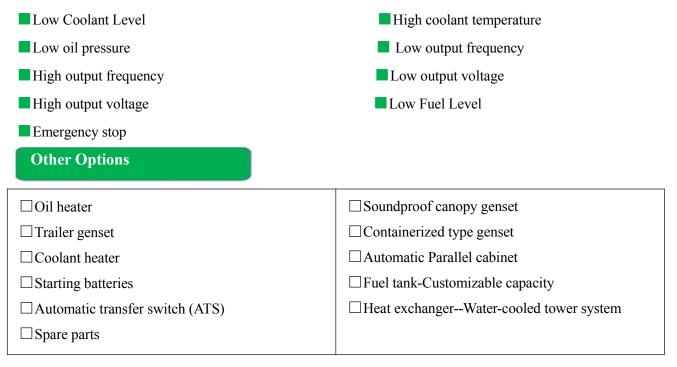


Operating Environment		
Operating temperature:	-25°C~70°C	
Relative humidity:	95%	
Operating voltage:	DC24V(range: 8-35V)	

#### **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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