

# Model:DB-1000GF Powered by Cummins

Applicable Standards	Factory Inspection			
ISO9001	Complete design and quality inspection			
ISO14001	0%, 25%, 50%, 75%, 100%, 110% load test			
ISO45001	Function test			
CE				
1000KW 1250KVA Diesel Generator Set Specifications				
Genset model	DB-1000GF			
Prime power	1000kW			
	1250kVA			

1100kW 1350kVA

400/230 (customizable)

Rate current(A)	1800
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**

Standby power

Rated voltage(V)

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	5000*2000*2450	8000	Without
Silent Type	6500*2600*2900	15000	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	Chongqing Cummins Engine Co.,Ltd
Model	KTA50-G3
Engine output-prime	1116kW
Engine output-standby	1227kW
Frequency:	50Hz
Speed:	1500rpm
Cylinders no. & Type:	16 cylinders, V-type 4 stroke, diesel engine, water-cooled
Aspiration:	Turbocharged , Aftercooled
Bore*stroke	159*159mm
Displacement	50.3L
Compression Ratio	13.9:1
Governor	Electronic speed governor
Starter motor voltage:	24V DC
Type Injection System:	Direct injection Cummins PT
Maximum Oil Temperature	121℃
Total Oil System Capacity	177L
Cooling way	Water Radiator & fan
Coolant Capacity-with radiator	199L
Standard Thermostat	82-93 °C
Fuel consumption- continuous power(100%)	293litre/hour
Fuel consumption-prime power (100%)	261litre/hour
Fuel consumption-prime power (75%)	199litre/hour
Fuel consumption-prime power (50%)	139litre/hour
Fuel consumption-prime power (25%)	76litre/hour

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** 

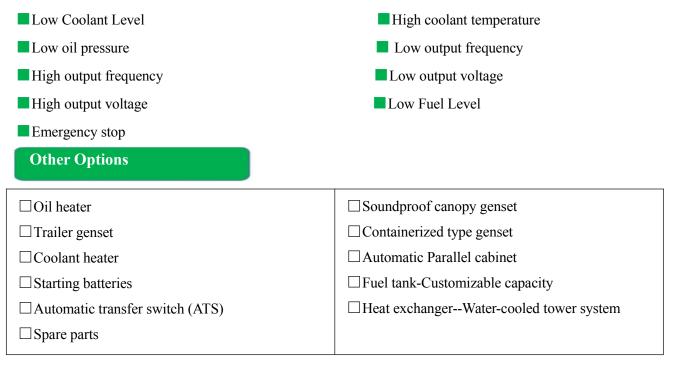


Operating Environment		
Operating temperature:	-25°C~70°C	
Relative humidity:	95%	
Operating voltage:	DC24V(range: 8-35V)	

#### **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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