

# Model:DB-250GF 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

250KW 313KVA Diesel Generator Set Specifications		
Genset model	DB-250GF	
Prime power	250kW	
-	313kVA	
Standby power	275kW	
	344kVA	
Rated voltage(V)	400/230 (customizable)	
Rate current(A)	450	
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	2800*1000*1800	2500	Without
Silent Type	3800*1800*2180	3200	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	<b>Dongfeng Cummins Engine Co.,Ltd</b>
Model	6LTAA9.5-G1
Engine output-prime	290kW
Engine output-standby	320kW
Frequency:	50Hz
Speed:	1500rpm
Cylinders no. & Type:	6 cylinders, Inline, 4 stroke, diesel engine,
	water-cooled
Aspiration:	Turbocharged and Charge Air Cooled
Bore*stroke	116*148mm
Displacement	9.5L
Compression Ratio	16.6:1
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	28.1L
plus Filters	
Cooling way	Water Radiator & fan
Coolant Capacity	55.5L
Standard Thermostat	82-93°C
Fuel consumption-standby power (100%)	200g/kWh
Fuel consumption-prime power (100%)	199g/kWh
Fuel consumption-prime power (75%)	196g/kWh
Fuel consumption-prime power (50%)	197g/kWh
Fuel consumption-prime power (25%)	210g/kWh

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** 

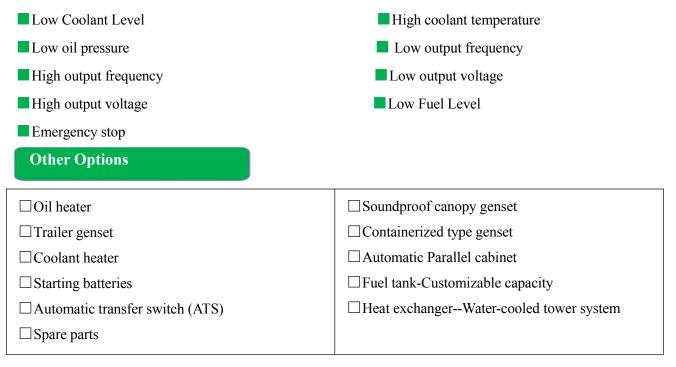


Operating Environment		
Operating temperature:	-25°C~70°C	
Relative humidity:	95%	
Operating voltage:	DC24V(range: 8-35V)	

#### **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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