

# Model:DB-640GF Powered by Cummins



**Applicable Standards** 

- ISO9001
- **I**SO14001
- ISO45001
- CE



Factory Inspection
Complete design and quality inspection
0%, 25%, 50%, 75%, 100%, 110% load test
Function test

640KW 800KVA Diesel Generator Set Specifications		
Genset model	DB-640GF	
Prime power	800kW	
	800kVA	
Standby power	704kW	
	880kVA	
Rated voltage(V)	400/230 (customizable)	
Rate current(A)	1152	
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	4300*1800*2400	7200	Without
Silent Type	6000*2600*2800	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.



Manufacturer	Dongfeng Cummins Engine Co.,Ltd
Model	KTA38-G2B
Engine output-prime	711kW
Engine output-standby	789kW
Frequency:	50Hz
Speed:	1500rpm
Cylinders no. & Type:	12 cylinders, V-type 4 stroke, diesel engine, water-cooled
Aspiration:	Turbocharged, Aftercooled
Bore*stroke	159*159mm
Displacement	38L
Compression Ratio	14.5:1
Governor	Electronic speed governor
Starter motor voltage:	24V DC
Type Injection System:	Direct injection Cummins PT
Maximum Oil Temperature	121°C
Total Oil System Capacity	170.3L
Cooling way	Water Radiator & fan
Coolant Capacity-with radiator	199L
Standard Thermostat	82-93 °C
Fuel consumption- continuous power(100%)	198g/kW.h
Fuel consumption-prime power (100%)	200g/kW.h
Fuel consumption-prime power (75%)	204g/kW.h
Fuel consumption-prime power (50%)	191g/kW.h
Fuel consumption-prime power (25%)	150g/kW.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 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** 

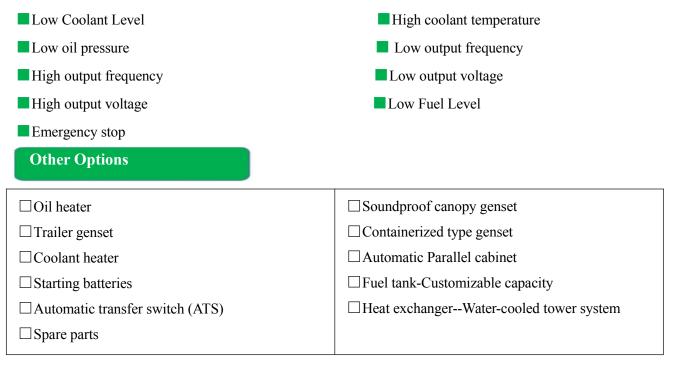


Operating Environment		
Operating temperature:	-25°C~70°C	
Relative humidity:	95%	
Operating voltage:	DC24V(range: 8-35V)	

#### **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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