



# Model:DB-1600GF

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

### 1600KW 2000KVA Diesel Generator Set Specifications

Genset model	DB-1600GF
Prime power	1500kW
	1875kVA
Standby power	1600kW
	2000kVA
Rated voltage(V)	400/230 (customizable)
Rate current(A)	2880
Power factor	0.8
Frequency(Hz)	50
Speed(rpm)	1500
Phase:	3 phase 4 wire
Noise level:	105dB at 7m ( open type diesel genset)
	90dB at 7m(silent type diesel genset)

### Environmental Conditions

- Ambient temperature: +5° C~+40° C
- Altitude: ≤1000m
- Remark: If your conditions are different from the above, please contact our sales.

Type	Dimensions(mm) L*W*H	Weight(kg)	Base bottom fuel tank (Liter)
Open Type	5200*2250*2500	12000	Without
Silent Type	10000*2900*3200	19000	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

<b>Manufacturer</b>	<b>Chongqing Cummins Engine Co.,Ltd</b>
<b>Model</b>	<b>KTA50-G16A</b>
Engine output-prime	1650kW
Engine output-standby	1760kW
Frequency:	50Hz
Speed:	1500rpm
Cylinders no. & Type:	16 cylinders, V-type 4 stroke, diesel engine, water-cooled
Aspiration:	Turbocharged and Low Temperature Aftercooled
Bore*stroke	159*159mm
Displacement	50.3L
Compression Ratio	14.7:1
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	235L
Cooling way	Water Radiator & fan
Coolant Capacity-engine only	140.1L
Standard Thermostat	82-93 °C
Fuel consumption- continuous power(100%)	205g/kW.h
Fuel consumption-prime power (100%)	204g/kW.h
Fuel consumption-prime power (75%)	204g/kW.h
Fuel consumption-prime power (50%)	213g/kW.h
Fuel consumption-prime power (25%)	247g/kW.h

- Heavy duty diesel engine
- Starter battery (with lead acid,free-maintenance)
- Anti-vibration mount
- Flexible fuel connection hoses
- Replaceable fuel filter, oil filter & air filter
- Exhaust silencer and bellows
- Cooling radiator and fan
- 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	H
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:

- Low Coolant Level
- Low oil pressure
- High output frequency
- High output voltage
- Emergency stop
- High coolant temperature
- Low output frequency
- Low output voltage
- Low Fuel Level

### Other Options

<input type="checkbox"/> Oil heater <input type="checkbox"/> Trailer genset <input type="checkbox"/> Coolant heater <input type="checkbox"/> Starting batteries <input type="checkbox"/> Automatic transfer switch (ATS) <input type="checkbox"/> Spare parts	<input type="checkbox"/> Soundproof canopy genset <input type="checkbox"/> Containerized type genset <input type="checkbox"/> Automatic Parallel cabinet <input type="checkbox"/> Fuel tank-Customizable capacity <input type="checkbox"/> Heat exchanger--Water-cooled tower system
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