

### Model:DB-50GF Powered by Shangchai



### **Applicable Standards**

- ISO9001
- ISO14001
- ISO45001
- CE

### **Factory Inspection**

Complete design and quality inspection

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

50KW 63KVA Diesel Generator Set Datasheet		
Genset model	DB-50GF	
Prime power	50kW	
_	63kVA	
Standby power	55kW	
	69kVA	
Rated voltage(V)	400/230 (customizable)	
Rate current(A)	90A	
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	1900*900*1200	950	Without
Silent Type	2400*1000*1600	1600	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	Shangchai
Model	4ZT4.1-G21
Engine output-prime	60kW
Engine output-standby	66kW
Frequency:	50Hz
Speed:	1500rpm
Cylinders no. & Type:	4 cylinders, Inline, 4 stroke, diesel engine,
	water-cooled
Aspiration:	Turbo charged
Bore*stroke	105*118mm
Displacement	4.1L
Compression Ratio	18:1
Governor	Electronic speed governor
Starter motor voltage:	12V DC
Type Injection System:	direct injection
Oil pan capacity(High/Low):	10L-8L
Cooling way	Water Radiator & fan
Water capacity:	4.1L
Fuel consumption-standby power (100%)	21.2L/h
Fuel consumption-prime power (100%)	19.1L/h
Fuel consumption-prime power (75%)	14.4L/h
Fuel consumption-prime power (50%)	10L/h

Heavy duty diesel engine

- Anti-vibration mount
- Replaceable fuel filter, oil filter & air filter
- Starter battery (with lead acid,free-maintenance)Flexible fuel connection hoses
- 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	Н
Temperature rise grade:	Н
Rotor:	Single/double bearing
Efficiency:	95%
Regulator:	AVR
Recovery time(Tr)	1s
Waveform : TIF	<50
Waveform : THF	<2%
Туре:	Synchronous alternator
Overload	110% rated load for 2 hour per 24 hour

## **Control System**

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

**Origin: China** 

### Automatic controller

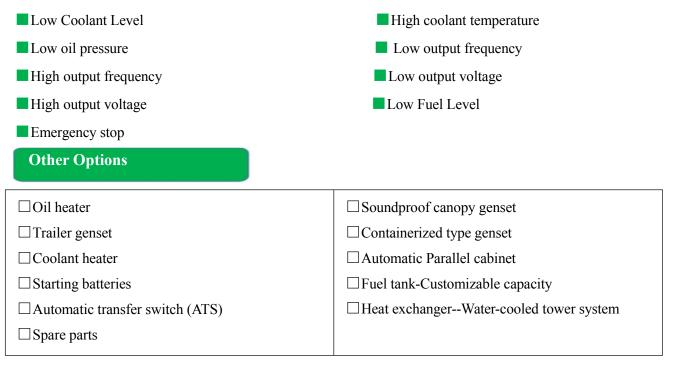


Operating Environment		
Operating temperature:	-25°C~70°C	
Relative humidity:	95%	
Operating voltage:	DC24V(range: 8-35V)	

#### **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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