

## Model:DB-500GF 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

500KW 625KVA Diesel Generator Set Datasheet		
Genset model	DB-500GF	
Prime power	500kW	
	625kVA	
Standby power	550kW	
	688kVA	
Rated voltage(V)	400/230 (customizable)	
Rate current(A)	900A	
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	3550*1400*2000	4550	Without
Silent Type	4700*2100*2450	7200	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	SC27G830D2
Engine output-prime	565kW
Engine output-standby	610kW
Frequency:	50Hz
Speed:	1500rpm
Cylinders no. & Type:	12 cylinders, V line, 4 stroke, diesel engine,
	water-cooled
Aspiration:	Turbo charged and air-to-air intercooled
Bore*stroke	135*155mm
Displacement	26.6L
Compression Ratio	16:1
Governor	Electronic speed governor
Starter motor voltage:	24V DC
Type Injection System:	direct injection
Oil pan capacity(High/Low):	65L-55L
Cooling way	Water Radiator & fan
Water capacity:	48L(engine only)
Fuel consumption-standby power (100%)	151.6L/h
Fuel consumption-prime power (100%)	138.1L/h
Fuel consumption-prime power (75%)	102.7L/h
Fuel consumption-prime power (50%)	68.7L/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 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

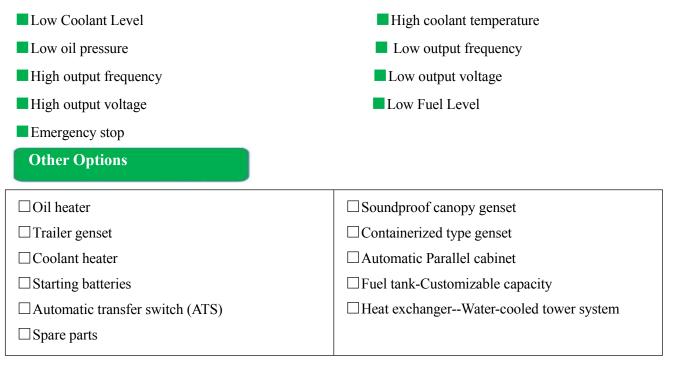


Operating Environment		
Operating temperature:	-25°C~70°C	
Relative humidity:	95%	
Operating voltage:	DC24V(range: 8-35V)	

#### **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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