

## Model:DB-100GF Powered by Yuchai



### **Applicable Standards**

- ISO9001
- ISO14001
- ISO45001
- CE

### **Factory Inspection**

Complete design and quality inspection

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

Function test

100KW 125KVA Diesel Generator Set Specifications		
Genset model	DB-100GF	
Prime power	100 kW	
_	125 kVA	
Standby power	110 kW	
	137.5 kVA	
Rated voltage(V)	400/230 (customizable)	
Rate current(A)	180A	
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	2200×900×1400	1150	Without
Silent Type	3000×1240×1790	2000	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	Yuchai
Model	YC4A180L-D20
Engine output-prime	120kW
Engine output-standby	132kW
Frequency:	50Hz
Speed:	1500rpm
Cylinders no. & Type:	4 cylinders, Inline, 4 stroke, diesel engine, water-cooled
Aspiration:	Turbocharged&Intercooled
Bore*stroke	108*132mm
Displacement	4.84L
Compression Ratio	17.5:1
Governor	Electronic speed governor
Starter motor voltage:	24V DC
Type Injection System:	direct injection
Oil capacity(dry engine):	17L
Engine oil and fuel consumption ratio	≤0.2%
Cooling way	Water Radiator & fan
Fuel consumption-standby power(100%)	33.8L/h
Fuel consumption-prime power(100%)	29.9L/h
Fuel consumption-prime power(75%)	21.6L/h
Fuel consumption-prime power(50%)	14.5L/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	$\pm 1\%$
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** 

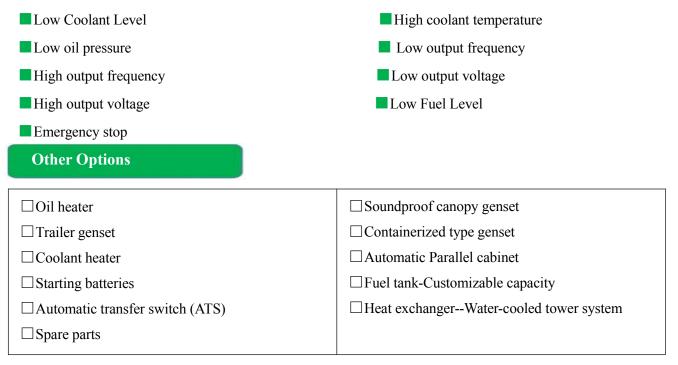


Operating Environment		
Operating temperature:	-25°C~70°C	
Relative humidity:	95%	
Operating voltage:	DC24V(range: 8-35V)	

### **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:



#### Guangxi Dingbo Power Equipment Manufacturing Co.,Ltd

Add: No. 10, Kechuang Road, High-tech Zone, Nanning, Guangxi, China Tel: +86 13481024441 Fax: +86 771 5805 259 Web: www.dbdieselgenerator.com Email: dingbo@dieselgeneratortech.com