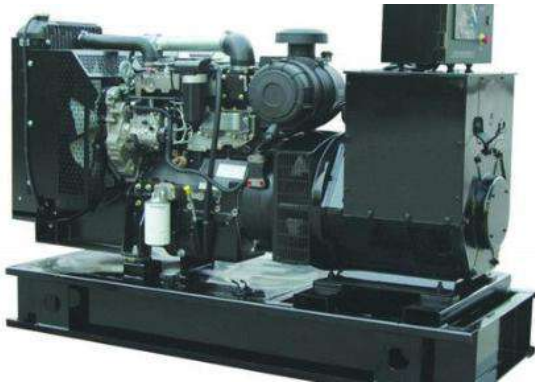




# Model:DB-20GF

Powered by Perkins



### Applicable Standards

- ISO9001
- ISO14001
- ISO45001
- CE

### Factory Inspection

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

### 20KW 25KVA Diesel Generator Set Datasheet

Genset model	DB-20GF
Prime power	20kW
	25kVA
Standby power	22kW
	28kVA
Rated voltage(V)	400/230 (customizable)
Rate current(A)	36A
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° 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	1450*730*1000	600	Without
Silent Type	2200*940*1530	1000	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>Perkins</b>
<b>Model</b>	<b>404D-22TG</b>
Engine output-prime	25kW
Engine output-standby	27kW
Frequency:	50Hz
Speed:	1500rpm
Cylinders no. & Type:	4 cylinders, Inline, 4 stroke, diesel engine, water-cooled
<b>Aspiration:</b>	<b>Turbocharged</b>
Bore*stroke	84*100mm
Displacement	2.216L
Compression Ratio	23.3:1
Governor	Electronic speed governor
Starter motor voltage:	12V DC
Type Injection System:	direct injection
Total Lubrication System Capacity	10.6L
Cooling way	Water Radiator & fan
Total Coolant Capacity	9.3L
Fuel consumption-standby power (100%)	8.3L/h
Fuel consumption-prime power (100%)	7.1L/h
Fuel consumption-prime power (75%)	5.0L/h
Fuel consumption-prime power (50%)	3.5L/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
Temperature rise grade:	H
Rotor:	Single/double bearing
Efficiency:	95%
Regulator:	AVR
Recovery time(Tr)	1s
Waveform : TIF	<50
Waveform : THF	<2%
Type:	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℃ ~70℃
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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