

Model:DB-24GF 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

24KW 30KVA Diesel Generator Set Datasheet		
Genset model	DB-24GF	
Prime power	24kW	
	30kVA	
Standby power	26kW	
	33kVA	
Rated voltage(V)	400/230 (customizable)	
Rate current(A)	43A	
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	1500*730*1150	800	Without
Silent Type	2200*940*1530	1150	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	Perkins
Model	1103A-33G
Engine output-prime	28kW
Engine output-standby	30kW
Frequency:	50Hz
Speed:	1500rpm
Cylinders no. & Type:	3 cylinders, Inline, 4 stroke, diesel engine,
	water-cooled
Aspiration:	Naturally aspirated
Bore*stroke	105*127mm
Displacement	3.3L
Compression Ratio	19.25:1
Governor	Electronic speed governor
Starter motor voltage:	12V DC
Type Injection System:	direct injection
Total Lubrication System Capacity	7.9L
Cooling way	Water Radiator & fan
Total Coolant Capacity	10.2L
Fuel consumption-standby power (100%)	7.9L/h
Fuel consumption-prime power (100%)	7.1L/h
Fuel consumption-prime power (75%)	5.4L/h
Fuel consumption-prime power (50%)	3.9L/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	$\pm 1\%$
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

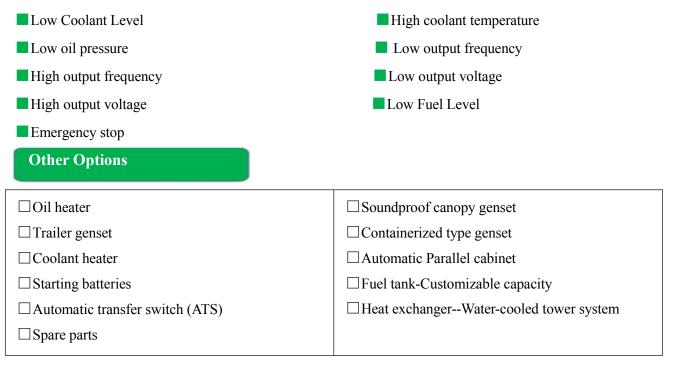


Operating Environment		
Operating temperature:	-25°C~70°C	
Relative humidity:	95%	
Operating voltage:	DC24V(range: 8-35V)	

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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