

# Model:DB-243GF Powered by Volvo Engine





## **Applicable Standards**

- ISO9001
- ISO14001
- ISO45001
- CE

# Factory Inspection Complete design and quality inspection 0%, 25%, 50%, 75%, 100%, 110% load test

Function test

243KW 303KVA Diesel Generator Set Specifications		
Genset model	DB-243GF	
Prime power	243kW	
-	303kVA	
Standby power	267kW	
	334kVA	
Rated voltage(V)	400/230 (customizable)	
Rate current(A)	367	
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 $\sim$ +40 $^{\circ}$  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	2650*1010*1650	1650	Without
Silent Type	3300*1400*2180	2700	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	Volvo Penta	
Model	TAD842GE	
Engine output-prime	261kW	
Engine output-standby	287kW	
Frequency:	50Hz	
Speed:	1500rpm	
Cylinders no. & Type:	6 cylinders, Inline, 4 stroke, diesel engine, water-cooled	
Aspiration:	Turbocharged	
Bore*stroke	110*135mm	
Displacement	7.7L	
Compression Ratio	17:1	
Governor	Electronic speed governor	
Starter motor voltage:	24V DC	
Type Injection System:	direct injection, Common rail	
Oil filter	Full flow cartrigde insert filter	
Oil sump	Deep front oil sump	
Cooling way	Water Radiator & fan	
Cooling fan	Pusher fan	
Standard Thermostat	83-103°C	
Fuel consumption-standby power (100%)	205g/kWh	
Fuel consumption-prime power (100%)	204g/kWh	
Fuel consumption-prime power (75%)	217g/kWh	
Fuel consumption-prime power (50%)	233g/kWh	
Fuel consumption-prime power (25%)	244g/kWh	

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
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** 

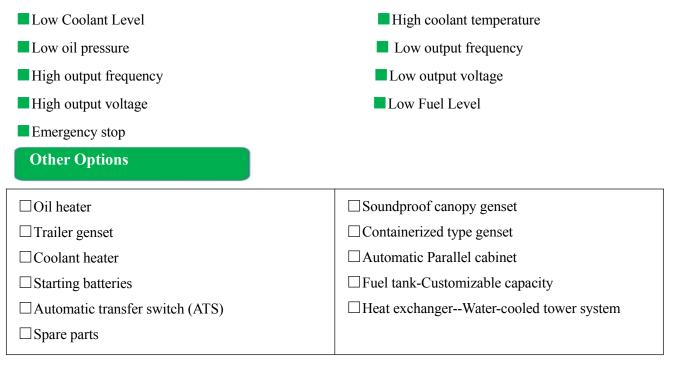


Operating Environment		
Operating temperature:	-25°C~70°C	
Relative humidity:	95%	
Operating voltage:	DC24V(range: 8-35V)	

#### **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:



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