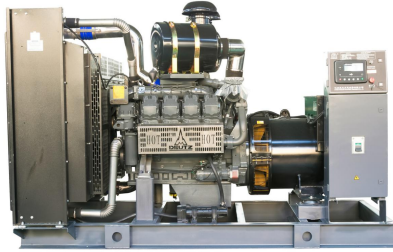




Model:DB-90GF

Powered by Cummins



Applicable Standards

- ISO9001
- ISO14001
- ISO45001
- CE

Factory Inspection

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

90KW 113KVA Diesel Generator Set Specifications

Genset model	DB-90GF
Prime power	90 kW
	113 kVA
Standby power	99 kW
	124 kVA
Rated voltage(V)	400/230 (customizable)
Rate current(A)	162A
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	2350×850×1690	1250	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	DEUTZ
Model	BF4M1013EC G2
Engine output-prime	105kW
Engine output-standby	116kW
Frequency:	50Hz
Speed:	1500rpm
Cylinders no. & Type:	4 cylinders, Inline, 4 stroke, diesel engine, water-cooled
Aspiration:	Naturally Aspirated
Bore*stroke	108*130mm
Displacement	4.76L
Compression Ratio	19:1
Governor	Electronic speed governor
Starter motor voltage:	24V DC
Type Injection System:	direct injection
Maximum Oil Temperature	121 °C
Cooling way	Water Radiator & fan
Lubrication System Oil capacity(sump)	11L
Standard Thermostat	83-95 °C
Fuel consumption-prime power (100%)	26.1 L/h
Fuel consumption-prime power (75%)	19.3 L/h
Fuel consumption-prime power (50%)	12.9 L/h
Fuel consumption-prime power (25%)	7.1 L/h
<ul style="list-style-type: none"> ■ Heavy duty diesel engine ■ Anti-vibration mount ■ Replaceable fuel filter, oil filter & air filter ■ Cooling radiator and fan 	<ul style="list-style-type: none"> ■ 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	H
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:

- 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"/> Soundproof canopy genset
<input type="checkbox"/> Trailer genset	<input type="checkbox"/> Containerized type genset
<input type="checkbox"/> Coolant heater	<input type="checkbox"/> Automatic Parallel cabinet
<input type="checkbox"/> Starting batteries	<input type="checkbox"/> Fuel tank-Customizable capacity
<input type="checkbox"/> Automatic transfer switch (ATS)	<input type="checkbox"/> Heat exchanger--Water-cooled tower system
<input type="checkbox"/> Spare parts	

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