

Model:DB-400GF

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

400KW 500KVA Diesel Generator Set Specifications		
Genset model	DB-400GF	
Prime power	400kW	
	500kVA	
Standby power	440kW	
	550kVA	
Rated voltage(V)	400/230 (customizable)	
Rate current(A)	720	
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	3250*1360*1900	3200	Without
Silent Type	4300*1800*2350	4400	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	Dongfeng Cummins Engine Co.,Ltd
Model	QSZ13-G3
Engine output-prime	450kW
Engine output-standby	470kW
Frequency:	50Hz
Speed:	1500rpm
Cylinders no. & Type:	6 cylinders, Inline, 4 stroke, diesel engine,
	water-cooled
Aspiration:	Turbocharged and Charged Air Cooled
Bore*stroke	130*163mm
Displacement	13L
Compression Ratio	17:1
Governor	Electronic speed governor
Starter motor voltage:	24V DC
Type Injection System:	Direct injection
Maximum Oil Temperature	121℃
Total Oil System Capacity	45.42L
Cooling way	Water Radiator & fan
Coolant Capacity-engine only	23.1L
Standard Thermostat	82-94℃
Fuel consumption- continuous power(100%)	85L/h
Fuel consumption-prime power (100%)	101L/h
Fuel consumption-prime power (75%)	74L/h
Fuel consumption-prime power (50%)	48.8L/h
Fuel consumption-prime power (25%)	26L/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	±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.

High coolant temperature

Below shut down causes are included:

- Low Coolant Level
- Low oil pressure Low output frequency
- High output frequency■ Low output voltage■ Low Fuel Level
- ■Emergency stop

Other Options

☐ Oil heater	☐ Soundproof canopy genset
☐ Trailer genset	☐ Containerized type genset
☐ Coolant heater	☐ Automatic Parallel cabinet
☐ Starting batteries	☐ Fuel tank-Customizable capacity
☐ Automatic transfer switch (ATS)	☐ Heat exchangerWater-cooled tower system
☐ Spare parts	

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