

Model:KH-1000GF Engine: CUMMINS Alternator: STAMFORD **Control Panel: UK DEEPSEA** Power:1250KVA/1000KW Prime Power:1375KVA/1100KW Standby









Prime power is available for an unlimited number of annual hours in variable load applications, in accordance with GB/ T2820-97. A 10% overload capability is available for a period of 1 hour within a 12-hour operation cycle.

The standby power rating is intended for supplying emergency power during utility power interruptions. No overload, utility parallel, or negotiated outage operation capabilities are available at this rating.

Standard Specification	
Genset model	KH-1000GF
Voltage	240/415V
Frequency	50HZ
Phase	3
Power Factory	0.8(lagging)
Protection Class	IP23
Insulation Grade	Н

Engine and genset output rating	
Engine model	KTA50-G3
Engine Speed (RPM)	1500
Prime (KW/HP)	1097/1470
Standby (KW/HP)	1227/1645
Genset Model	KH-1000GF
Prime (KVA/KW)	1250/1000
Standby (KVA/KW)	1375/1100

Scope Of Supply		
Engine:	CUMMINS	
Alternator:	STAMFORD	
Controller:	Automatic controller DSE8610 MKII with synchronisation function, DSE890 MKII remote control function, and DSE9470 MKII battery charger.	
Breaker:	Manual circuit breaker, 3-pole, LS brand, model ACB AS-20E3-20H NG5.	
Radiator:	tor: Cummins 40°C	
Vibration:	Vibration damper installed between the engine/alternator and the base frame.	
Base:	Heavy-duty steel channel base frame.	
Silencer:	Heavy-duty residential-type silencer with flexible bellow, elbow, flange, and associated exhaust gas system.	
Battery:	4 x 12V 200AH high-capacity sealed maintenance-free battery complete with battery cables.	
Manuals:	Standard tools, operator's manuals for engine, alternator, controller, & breaker	
Other parts:	1 x 1000L day tank with fuel feed system. 1250 KVA oil-immersed step-up transformer. 500m YJV 300mm ² power cable	

Synchronisation system
Breaker brand (ABB,Simens,Schneider,LS)
Anti condensation heater
Daily fuel tank
Output cable
Maintenance spare parts
Plywood case packing





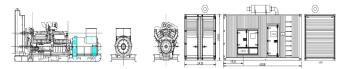




DIMENSIONS(L*W*H) and Weight

PROCESS FLOW: Drawing → Cutting → Bending → Welding → Spraying → Assembling → Testing

Open Type	9600kG
	5000*2000*2450mm
Silent Type	13700KG
	6096*2438*2680mm



Sound Attenuated Container

The entire container genset can be shipped as an international standard container, significantly reducing transportation costs (certificates can be provided).

The diesel genset, power switch cabinet, control system, and 6–8 hour fuel tank are fixed inside the container.

There are two explosive–proof lamps installed in the roof of the container and one above the control panel for user convenience

Both the front and back doors of the container can be opened. Each side is also equipped with doors for user operation and maintenance, and there are ladders outside the container.

All hinges, locks, and bolts are made of stainless steel. The container installation is designed to protect against water ingress.

The control panel and output cabinet are located on the same side of the container for convenient daily operation and power cable connections.

Anti vibration mounts are installed between the engine and base frame to reduce noise and vibration during genset operation.

The advanced ventilation system effectively allows heat generated during genset operation to escape from the canopy.

The control space is designed to ensure ease repair and maintenance while working within inside the container.

The absorbative & reactive silencer significantly reduces noise generated by the exhaust.

The output terminal is located inside an output box fixed to the container, allowing users to connect cables directly from outside.

Sound Attenuated Container

The soundproof container-type power generator utilises advanced sound-absorbing technology. The polymer materials combine sound wave reflection and absorption techniques, converting sound energy into heat energy, which is then expelled from the container through the ventilation system. Additionally, the soundproofing doors feature double-layered glass windows with perfect sealing along the doors and windows to prevent sound from escaping.

Warranty

Warranty is according to our standard conditions: 12 months or 2,000 running hours, whichever occurrs first.

Certification

European Safety Standard: CE Certificate

ISO9001:2015 Quality Control System

Cummins Oem Certificate
Stamford Oem Certificate

CUMMINS Diesel Engine



Engine Brand	Cummins CCEC
Engine Manufacturer	Chongqing Cummins Engine Company Ltd
Engine Model	KTA50-G3
Engine Rated Power	1097KW @1500RPM
Cylinder Arrangement	16 in V
Cycle	Four stroke
Aspiration	Turbocharged and Aftercooled
Fuel System	Cummins PT
Bore×Stroke (mm×mm)	159x159
Displacement(L)	50.3
Compression Ratio	13.9:1
Speed Governor	Electronic
Cooling System	Forced Water Cooling Cycle
Starter Motor	DC24V electrical starting









Exhaust System	
Exhaust Gas Flow (I/s)	3728
Max Back Pressure(kPa)	6.79

Air Intake System	
Max Intake Restriction (kPa)	3.74 (Heavy Duty Clean Element)
Clean Element	381
Air Flow(I/s)	1605

Cummins PT
274
261
199
139
76

Lubrication Oil System	
Maximum Oil Temperature(°C)	121
Oil Pressure at Rated RPM(kPA)	82-93
Total System Capacity (L)	104/100

Cooling System	
Coolant Capacity – Engine Only(L)	161
Thermostat range(°C)	82-94
Max Water Temperature Standby/ Prime(°C)	104/100

Specification of STAMFORD Alternator STAMFORD		
Alternator Brand	Stamford	
Engine Manufacturer	Cummins GeneratorTechnologies (China) Co., Ltd	
Alternator Model	S6L1D-D4	
Alternator Rated Power	1260KVA/1008KW	
Rated Voltage	415V	
Rated frequency	50HZ	
Connecting Type	3 Phase and 4 Wires	
Number of Bearing	1	
Protection Grade	IP23	
Altitude	≤1000m	
Exciter Type	Brushless, Self-exciting, AVR automatic voltage regulating, 100% Copper winding wire	
Insulation Class	Н	
Telephone Influence Factor (TIF)	≤50	

Specification of STAMFORD Alternator		STAMFORD
THF	≤2%	
Voltage Regulation, Steady State	≤±1%	
Transient State Voltage	≤-15%~+20%	

Specification of control System (Deepsea DSE7320MKII Module)

The DSE7320 controller is an advanced control module based on a microprocessor. It functions as an Auto Mains (Utility) Failure Control Module (AMF) designed to start and stop generating sets that include both electronic and non-electronic engines. It also has the capability to monitor the mains (utility) supply. When the mains supply is unavailable, it can automatically start the engine and close the generator's breaker. It accurately measures various operational parameters and displays all values and alarm information on the LCD. Additionally, it can automatically open the breaker and shut down the engine once the mains supply is restored.

Main Features

The system includes Auto Mains Failure (AMF) and Automatic Transfer Switch (ATS) functionalities, along with communication and expansion capabilities.

It is designed to operate simultaneously with electronic, non-electronic, or gas engines, supporting a variety of engine ECUs.

The device features selectable modes: Manual, Automatic, Test, and Remote Control.

It monitors and measures the operational parameters of both the mains supply and the generator set (genset).

It indicates the operational status, fault conditions, all parameters, and alarms.

It features multiple protection mechanisms and displays various parameters.

The system includes 12 inputs and 8 outputs, with 8 of the inputs and 4 of the outputs being configurable.

Has 4 analog inputs for optional sensors that can measure oil pressure, coolant temperature, fuel level, and more; the parameters are user-configurable.

It can be programmed either via the front panel or using PC software.

Supports twelve languages, with the option for customers to edit the languages.

Features graded protection with options for pre-alarm, shutdown, and electrical trip, all with flexible settings.

The module can be pre-set for four operating modes and protective parameters.

The firmware can be updated automatically, ensuring the customer always has the latest version.









Key Features

4-Line back-lit LCD text display.



Multiple Display Languages.

Five key menu navigation.

LCD alarm indication.

Heated display option available.

Customisable power-up text and images.

DSENet expansion compatibility.

Data logging facility. Internal PLC editor.

Protections disable feature. Fully configurable via PC using USB, RS232 & RS485 communication.

Front panel configuration with PIN protection.

Power save mode.

3 phase generator sensing and protection.

3 phase mains (utility) sensing and protection (DSE7320 MKII only).

Automatic load transfer control (DSE7320 MKII only).

Generator current and power monitoring (kW, kvar, kVA, pf).

Mains current and power monitoring (kW, kvar, kVA, pf) (DSE7320 MKII only).

kW and kvar overload and reverse power alarms.

Over current protection.

Unbalanced load protection.

Independent earth fault protection. Breaker control via fascia buttons.

Fuel and start outputs configurable when using CAN.

6 configurable DC outputs.

2 configurable volt-free relay outputs.

6 configurable analogue/digital inputs.

Key Features

Support for 0 V to 10 V & 4 mA to 20 mA sensors.

8 configurable digital inputs.

Configurable 5 stage dummy load and load shedding outputs.

CAN, MPU and alternator frequency speed sensing in one variant.

Manual and automatic fuel pump control.

Engine pre-heat and post-heat functions.

Engine run-time scheduler.

Engine idle control for starting & stopping.

Fuel usage monitor and low fuel level alarms.

Simultaneous use of RS232 and RS485 communication ports.

True dual mutual standby using RS232 or RS485 for accurate engine hours balancing.

MODBUS RTU support with configurable MODBUS pages.

Advanced SMS messaging (additional external modem required).

Start & stop capability via SMS messaging.

3 configurable maintenance alarms.

Compatible with a wide range of CAN engines, including tier 4 engine support.

Uses DSE Configuration Suite PC Software for simplified configuration.

Licence-free PC software.

IP65 rating (with supplied gasket) offers increased resistance to water ingress.

Modules can be integrated into building management systems (BMS) using MODBUS RTU.

Key Benefits

Automatically transfers between mains (utility) and generator (DSE7320 MKII only) for convenience.

The hours counter accurately tracks runtime, helping users schedule maintenance and ensure timely servicing.

The user-friendly setup and intuitive button layout ensure easy operation and quick access to functions.

Multiple parameters are monitored and displayed at the same time for complete visibility

The module is configurable to accommodate various applications, offering user flexibility.

The PLC editor enables users to configure functions tailored to specific application needs.





