宾士动力
BS POWER

GB/T9001-2008 idt ISO9001:2008
GB/T24001-2004 idt ISO14001:2004

Cummins Diesel Generator Set

Model No.：BCS550

Standby Power 550KW/688KVA

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Powered by

Cummins: KTAA19-G6A

Standby 688KVA at 50Hz, 400V

Genset Technical Data:

Genset Model:	BCS550
Prime Power:	500 KW /625KVA
Standby Power:	550 KW / 688KVA
Frequency/Speed:	50Hz/1500rpm
Rated Voltage:	400V
Power Factor:	0.8
Phase:	three-phases, four-wires
Fuel consumption (100% load)：	127.8 L/h
Oil tank:	1000 L
Engine:	Cummins
Alternator:	Stamford
Controller:	DeepSea
Dimensions (LxWxH):	3600×1550×1900 mm
Net Weight:	5050 kgs

(1) PRP: Prime Power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528-1. A 10% overload capability is available for a period of 1 hour within 12-hour period of operation. In accordance with ISO 3046-1.

(2) ESP: The Standby Power Rating is applicable for supplying emergency power in variable load applications for up to 200 hours per year in accordance with ISO8528-1. Overload is not allowed.

Advantages:

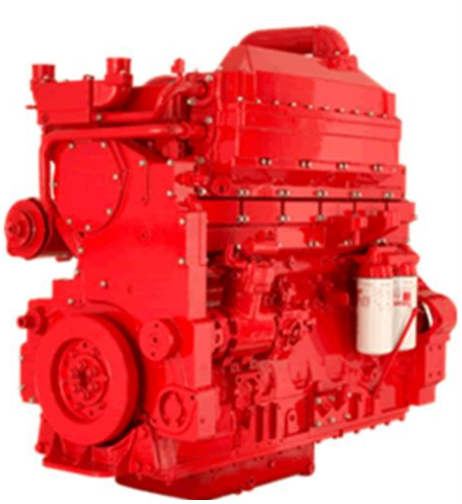
1. **Unique engine injection pressure and construction:** Unique Cummins fuel system, 4 valves per cylinder, direct injection, turbocharged & intercooled.
2. **Advanced production technology:** higher strengthen and reliability because of alloy cast iron cylinder body & cover and complete equilibrium structure crankshaft.
3. **Advanced electrical control technology:** full control system design, use advanced ECU intelligent control patch, with real-time monitoring for engine. With fault reserve function.
4. **High operating reliability:** high strength cast cylinder and crankcase provide solid crankshaft support and reduce weight. The engine has enough safety power reserve to cope with 50% over-speed.
5. **Economy:**

1) The engine set consumes less fuel and oil, so the operating costs are low, fuel consumption rate is 195-2D8 g / kWh.
2) With the world's longest working time before first overhaul.

Cummins Engine

Model: KTAA19-G6A

Origin: CCEC, China



General features:

- Water cooled, turbocharged & intercooled.
- Direct injection fuel system
- 24V D.C starter
- Cooling radiator and fan with safety guard.
- Replaceable fuel filter, oil filter and dry element air filter.
- Fuel and water separator as optional.

Main Technical Data:

Prime/standby power:	-/610kw
Rated Voltage:	400V
Frequency/Speed:	50Hz/1500rpm
Cylinders no. & Type:	6 cylinders, in line, 4 cycle
Aspiration:	Turbocharging and Air to Air intercooling
Bore × Stroke:	159×159 mm
Displacement:	18.9 L
Compression ratio:	13:1

Exhaust System

Max. back pressure	10 kPa

Air Intake System

Max. air intake resistance	
--Dirty filter	6.2kPa
--Normal air cleaner and clean filter	2.5kPa
--Normal air cleaner and clean filter	3.7kPa

Lubrication System

Oil pressure	
----Idle speed	⩾138 KPa
----Governed speed	345-483 KPa
Max. oil temperature permitted in oil pan	121℃
Oil pan capacity (Max/Min)	38/32L
Total system capacity (including compound filter)	50L

Fuel System

Fuel injection system	Direct injection Cummins PT
Max. supply fuel flow	242 L/H

Cooling System

Coolant capacity-engine only	30L
Maximum Coolant Friction Head External to Engine	55KPa
Thermostat adjusting temperature (range)	82-93/℃
Min. pressure cap at sea level	69KPa
Max. coolant temperature to top tank for standby/prime power	104/100℃

Electric System

Starter	24V
Battery charging system	35A
Max. starting circuit resistance	0.002Ω
Min. recommended battery capacity	(⩾10˚C) 600A (0-10˚C) 640A (-18˚C-0˚C) 900A

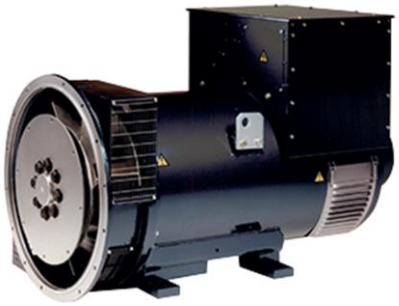
Dimension & Weight

Dimensions (LxWxH):	2142×990×1730mm
Weight	1905kg

Stamford Alternator

Model: HCI 544FS

Origin: Wuxi, China



General Features:

- Meet word-leading alternator standard requirement
- 2/3 winding pitch can restrain overmuch neutral current
- 12 stator leading-out terminal can be reconnected
- H insulation grade can meet the requirements at hostile environment
- Self-excited control, provide continuous short-circuit current capacity
- Single bearing or double bearings structure
- Easy installation and maintenance
- Standard protection class IP23

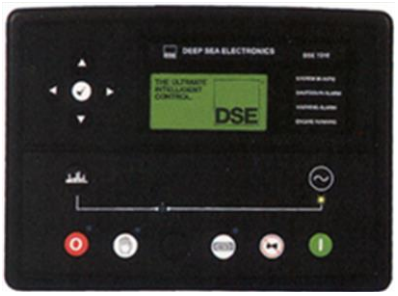
Main Technical Data:

Prime power	500KW/625KVA
Rated Voltage:	400V
Frequency/Speed:	50Hz/1500rpm
Power Factor:	0.8
Efficiency:	95.1%
Design:	Brushless single bearing, revolving field
Regulator:	AVR self-regulation
Stator:	2/3 winding pitch
Rotor:	Single bearing , flexible disc
Exciter Type:	Brushless excitation
Windings:	100% copper
Voltage regulation:	±1%
Overspeed:	2250min-1
Indication of protection:	IP23
Insulation class	H
Total Harmonic Distortion:	NO LOAD < 1.5% NON-DISTORTING BALANCED LINEAR LOAD < 5.0%
Telephone Influence Factor(TIF):	<50
Telephone Harmonic Factor(THF):	<2%
Dimensions (LxWxH):	1367 x 700 x 971 mm
Weight	1685 kg

DeepSea Control System

Model: DSE7320

Origin: Shanghai, China



Operating Environment:

Operating temperature:	-20℃～60℃
Relative humidity:	95%
Operating voltage:	DC24V(range：18-30V，withstand voltage：50V/5mm)

General Features:

- Compact size, reliable performance, easy to operation.
- Automatic detection function and multi-protection function, protect the generator operating safety and steady.
- Multi-interface display generator's working and alarm condition, visualized and clear to watch.
- Microcomputer control panel: set parameters such as input, output, alarm and time delay.
- Multiple operating modes: maintenance mode, manual mode and automatic mode.
- Start automatically when main supply is abnormal (over-tension, voltage too low, voltage loss).
- LCD can show all the parameters for the diesel generator.
- Protective cutoff function when the generator set failed.
- LCD alarm display, sound-light alarm control output.
- Manual/automatic/three-remotes function and electric supply/generate electricity automatic switch on-off control.
- Support RS232/RS485 communication mode (MODBUS protocol).

Protection:

- High/low voltage & frequency.
- Revolving speed lack of /exceed.
- Low oil pressure.
- High water temperature.
- Over current/ short trouble, emergency stop

DeepSea Paralleling Module (Optional)

Full Automatic Paralleling Control Cabinet

- Self-starting, safety protection, alarm.
- It can realize parallel operation by manual or automatic.
- Self-load distribution.
- Self- reactive power distribution.
- Self-put into or logout gen-set per load.
- It can at most control 16 sets gen-set parallel operation.
- Provide open type MODBUS protocol, RS232 and RS485 communication interface for monitoring function.
- It has manual, automatic, three-remote function, monitor by computer to reach three – remote.

Features:

- Sheet steel lockable enclosure with hinged door,
- Removable base gland plate for cable entry/exit on all ratings
- Voltmeter (0-500) across L1-L2 on load output
- Load transfer push buttons
- 22.5mm multi-head LED indicators for “mains on load” and “generator on load”
- Interface to BS Power generator control panel
- Suitably rated earth bar

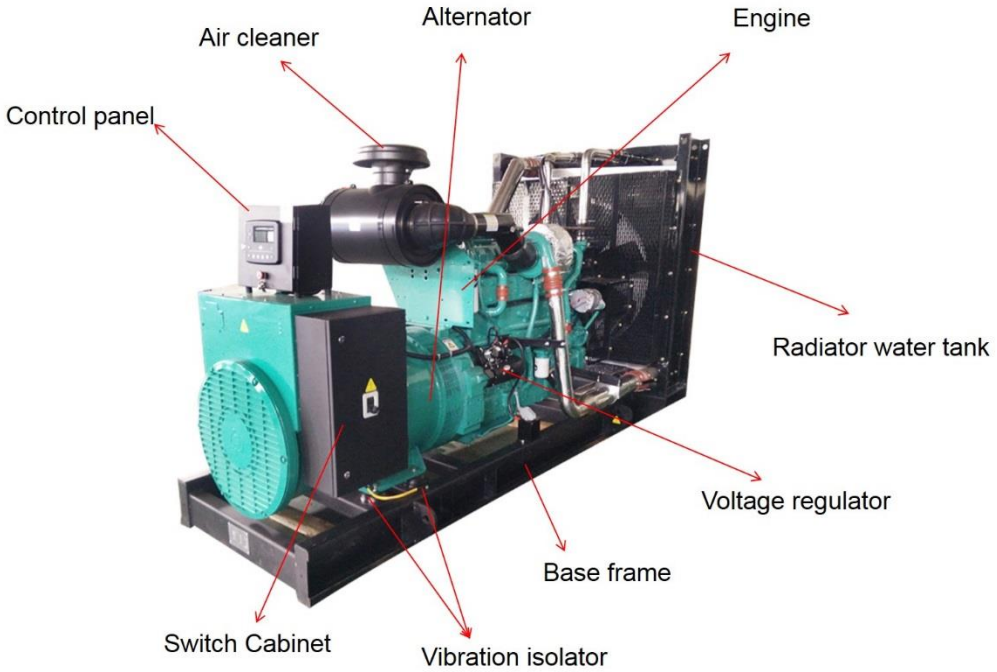
Protection:

- High/low voltage & frequency.
- Revolving speed lack of /exceed.
- Low oil pressure.
- High water temperature.
- Over current/ short trouble, emergency stop

Circuit Breaker

Brand:	Mingyang
Capacity:	1000A

Genset Outlook



Standard Supply Scope:

- Drive fan for engine and 40℃ heat radiating water tank.
- Moulded case circuit breaker
- Battery and battery cable
- Float battery charger
- Base frame with vibration isolator
- Daily fuel tank
- Exhaust elbow, exhaust bellows, exhaust muffler
- Fuel filter, oil filter, air filter
- Tool kits
- Plastic membrane packing
- English testing report, quality certificate, service manual and warranty card

Optional Supply Scope:

- Water jacket pre-heater
- Fuel and water separator
- Fuel pre-heater
- External daily fuel tank
- ATS
- Synchronization system
- Standard container
- Rain-proof canopy
- Sound-proof canopy
- Trailer

Binshi Sales Promise

1. **Pre-sales service:** Our professional engineers give reasonable suggestions about selection, room design to all the technical solutions.
2. **Selling service:** we provide the technical support for the genset installation, test, room noise reduction, dust pollution ect.
3. We have **24 hours Standby** after-sales engineers and sufficient original plant components system.
4. **Quality Warranty** is according to our standard conditions: 12 months from BL date or 1,000 running hours. (whichever comes first.)