

Cummins Diesel Generator Set

Model No.: BCSS360

Standby Power 360KW/450KVA



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Powered by

Cummins: NTAA855-G7A

Standby 450KVA at 50Hz, 400V



Genset Technical Data:

Genset Model:	BCSS360
Prime Power:	320 KW /400KVA
Standby Power:	360 KW / 450KVA
Frequency/Speed:	50Hz/1500rpm
Rated Voltage:	400V
Power Factor:	0.8
Phase:	three-phases, four-wires
Fuel consumption (100% load):	108L/h
Oil tank:	600 L
Engine:	Cummins
Alternator:	Stamford
Controller:	DeepSea
Dimensions (LxWxH):	3200×1250×1900 mm
Net Weight:	3750 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: NTAA855-G7A

Manufacture: 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:	-/407KW
Rated Voltage:	400V
Frequency/Speed:	50Hz/1500rpm
Cylinders no. & Type:	6 cylinders in line, 4-cycle
Aspiration:	Turbocharging, Air to Air intercooling
Bore × Stroke:	140×152mm
Displacement:	14 L
Compression ratio:	14: 1

Exhaust System

Max. back pressure	10 kPa
Standard exhaust pipe diameter	127 mm

Air Intake System

Max. air intake resistance	
Dirty filter	6.22 kPa
Normal air cleaner and clean filter	3.74 kPa
Minimum Dirt Holding Capacity	53 g/L/s
Maximum Allowable Intake Air Temperature	17℃



Lubrication System

Oil pressure	
Low idle speed	103 kPa
Rated speed	241-345 kPa
Maximum Oil Consumption	0.24L/h
Max. oil temperature permitted in oil pan	121℃
Oil pan capacity (Max/Min)	28.4/36 L
Lubrication system Min. capacity (oil pan + oil filter)	38.6 L
Usage inclining degree permitted (any direction)	38℃

Fuel System

Fuel injection pump model	Direct injection Cummins PT
Maximum Fuel Pump Supply	426L/h
Fuel Rail Pressure	1196kPa
Maximum Fuel Temperature	71℃

Cooling System

Coolant capacityengine only	20.8 L
With radiator	60.6 L
With Heat Exchanger	49.2 L
Max. coolant cycling resistance exterior engine	41 kPa
Thermostat adjusting temperature (range)	82-94 ℃
Min. opening pressure of radiator cap	48.2 kPa
Max. coolant temperature permitted	96℃
Maximum Top Tank Temperature	100℃
Minimum Top Tank Temperature	71℃

Electric System

Starter	24V
Battery charging system	35A
Max. starting circuit resistance	0.002Ω
Min. battery capacity12℃ (CCA: Cold Cranking Ampere)	900CCA

Dimension & Weight

Dimensions (LxWxH):	1880×783×1597mm
Weight	1300kg



Stamford Alternator

Model: GR314F

Origin: Shanghai, China

A

General Features:

- ♦ Advanced automatic voltage regulator control
- ♦ 2/3 winding pitch can restrain overmuch neutral current
- ♦ 12 stator leading-out terminal can be reconnected and can meet different voltage classes
- Single bearing or double bearings structure
- Easy installation and maintenance
- Standard maintenance-free sealed bearing
- ♦ Standard protection class IP23

Main Technical Data:

	0001041/40010/4
Prime power:	320KW/400KVA
Standby power:	344KW/430KVA
Rated Voltage:	400V / 380V
Frequency/Speed:	50Hz/1500rpm
Power Factor:	0.8
Efficiency:	93.4%
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
Stabilized voltage regulation	±0.5%
Overspeed:	2250min
Indication of protection:	IP23
Insulation class	Н
Short-circuit current capacity	300%(3 multiples): 10s
Dimensions (LxWxH):	156×79×107 mm
Weight	1123.5 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:

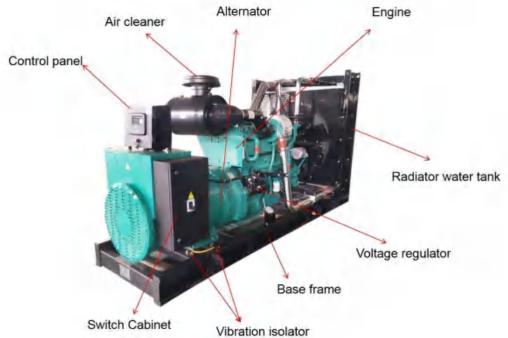
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Circuit Breaker

Brand:	Mingyang
Capacity:	700A



Genset Outlook





Standard Supply Scope:

- ◆ Drive fan for engine and 40°C 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.)

