

BOSS GENSETS 800KW /1000KVA Diesel Engine : BS-C1000



Photos and colors is only sample images



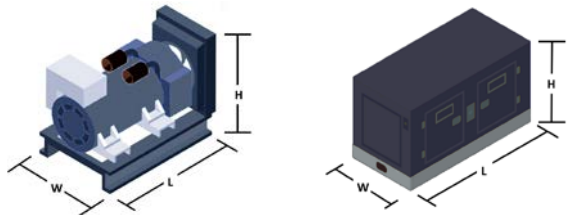
FEATURE & BENEFITS

- Maximum Power 1000kVA designed prime power at 400/230V @ 50Hz 1500rpm P.F 0.8
- 12 Cylinder, 4 Cycle Turbocharged diesel Engine / Heavy duty type
- New Electronic speed control technology voltage regulation $\pm 1\%$ at solid state
- H Specification Insulation and four way protection system include
- Base fuel tank 8Hr, @100% load
- Low noise Level ≤ 85 dBA @1m. ≤ 75 dBA @7m. with silencer canopy and outside lockable doors
- Wide of 4 Doors/(2 sides) easy service accessible
- N-PE type Non flammable proof material for sound attenuate / Harmless to health and living
- Base Rubber and Spring design to support and absorb vibration
- Automatic Transfer Switch (ATS) and Main Panel Microprocessor control
- Automatic battery Charger 5A & Dynamo Charger
- MCCB Circuit Breaker toggle type. Protection in circuit and load connection (std. IEC,UL)
- Exhaust with residential type and flexible tube , Heat protect by Aluminum shield
- Easy to use Digital Controller with Auto Manual start and reset alarms Easy
- Maintenance , Hand Pump and Motor Pump on same platform , Valve Drain pipe & Vent pipe.
- Energy saving by full microprocessor controller direct engine and alternator
- Generator set Standards ISO 9001,ISO14001 ,ISO45001, CE/ Manufacturer Certified
- The generator set consists of the Engine ,the Alternator unit directly Direct flexible Coupling with flange and Controller panel box are mounted on the same steel base in the H beam platform ,Flexible Mounting on to rubber /springs (vibration isolates designed)

CANOPY (Option)

Ventilation parts are designed with more principles Weather resistant and lined with sound reducing foam All metal canopy parts are double painted by power paint Panel window , Lockable doors on each side Insulated engine exhaust system Exterior Emergency Switch stop push button

GENSET MODEL	BS-C1000
Prime power	800kW / 1000kVA
Standby Power	880kW / 1100kVA
Phase	3P4W , 3P3W
Power Factor (cos \emptyset)	0.8
Rate Voltage (V)	50Hz./1500RPM



DIMENSIONS AND WEIGHT:		
GEN-Set	Dimension (L*W*H)	Weight
Open Type	4400mm x2060mm x2620mm	9800
Silent Type	5000mm x2048mm x2522mm	11700

CONTROL PANEL

Control & ATS Cabinet Steel plate 1.5 mm.
 Thickness (floor) standy type 2 layers polyester
 Electric powder paint with ground system

1000kVA DIESEL GENERATOR SET

Genset Model	BS-C1000		
Prime Power (kw/kva)	800/1000	Standby Power(kw/kva)	880/1100
Voltage (v)	400/230	Rated Speed (rpm)	1500
Frequency (Hz)	50	Rated Current (A)	1443
Connection:	3 phase 4 wire	Power Factor:	0.8
Engine Model:	KTA38-G5	Alternator	LVI634E
Net Weight (kgs)-Open	9800	Net Weight (kgs)-Silent	11700
Dimensions (mm)-Open	4400x2060x2620	Dimensions (mm)-Silent	5000x2048x2522

Voltage Available: 50Hz: 380-400-415V/220-230-240V; 60Hz: 220-380-416-440-480V/110-208-220-240V

Any special voltage is also available as client's request

Prime Power: comply with GB/T2820-97(eqv.ISO8528). Genset can run unlimitedly under certain power range. One hour 10% over load in every 12 running hours is allowed;

Standby Power: standby power is the limit value of maximum output for emergency use. It is off-oil power, overloading is prohibited

Standard Configuration:

- ◆ **Engine: CCEC Cummins KTA38-G5**
- ◆ Radiator & Ventilation fan drive by Belt with metal grill safe guard protect.
- ◆ Cooling Fan with fan guard and front guard
- ◆ Alternator: Single bearing, IP23, H class
- ◆ Thermostat Valve Temperature Control
- ◆ Dry Air Filter. Dual Fuel Filter. Engine Oil Filter. Coolant Filter.
- ◆ Overload Protection
- ◆ Standard Control Panel; ATS for optional
- ◆ DC motor 24Vdc Start with Battery 200ah. 12Vdc (2block)
- ◆ Storage Battery and battery line, Exhaust pipe, Corrugated pipe for anti-vibration, Cone Tube, Flange, Muffler
- ◆ Electronic Voltage Regulation solid state ≤1%@ 0-100% load , Over load >250 %
- ◆ Soundproof Enclosure/Canopy for optional
- ◆ Key switch Start(manual cases controller fail)
- ◆ Automatic battery Charger 24Vdc and Dynamo 24V DC



Quality Assurance:

- **Factory Inspection**, the test items before delivery are mainly as follows:
 - ✓ Each genset shall be put into commission more than 4 hours totally. They are tested on idle load, fully load and 10% overload;
 - ✓ The noise level is tested
 - ✓ All of the meters on the control panel shall be tested
 - ✓ The appearance of the genset and all of the label and nameplate shall be checked
- **Warranty**



12 months or 1000 running hours from shipment date. If the quality problem arise during the warranty period, and verified the problem is caused by our genset-body instead of external or natural reasons. (Refer to all kinds of natural disaster, shipping, loading, unloading, wrong-operation, etc), we will supply the relevant spare parts free of charge for maintenance; after the warranty period, we can supply the required spare parts for you under cost prices.

G-Drive DIESEL Engine :

Manufacturer/	CCEC Cummins KTA38-G5
Model: Air Intake	Turbocharged, Air/-water Cooled
System: Fuel	PT Fuel Pump, EFC electronic governor
System: Injection:	Direct Injection
Cylinder numbers:	12 cylinders in "V", 4Stroke
Engine Speed:	1500 RPM.
Displacement:	37.8L
Bore x Stroke:	159 x 159 mm
Compression Ratio:	13.9 : 1
Prime Power:	881KW / 1180BHP
Governing System:	Electronic

Engine Standard

ISO 9001, ISO14001, ISO-3046, BS-5514 and DIN-6271

Exhaust System

Exhaust gas flow:	3306 L/s
Exhaust temperature:	513 °C
Max. Allowed Back Pressure:	10 KPa

Intake System

Max. Allowed Pressure:	6.23 kPa
Consumption:	1213 L/s
Air Flow:	1140 L/s

Fuel System

100% Load (Prime):	392L/h
75% Load (Prime):	302L/h
50% Load (Prime):	212L/h

Lubrication System

Oil Capacity:	135 L
Oil Consumption:	≤4g/kw.h
Engine Oil Tank Capacity:	114L
Oil Pressure at rated speed:	310-448 kPa

Cooling system

Coolant Capacity:	258 L
Thermostat:	82-93°C
Max. Water Temperature:	104°C



Alternator Parameter: Basic Information

The alternators meet the standards of:

IEC60034, BS5000, VDE0530, NEMA MG1-32-33, IEC34-1, CSA22.2-100, AS1359, UL1446 and CE

Technical Data:

Manufacturer:	STAMFORD LVI634E
Connection:	3phase 4 wire, Y type
Alternator Capacity:	800kW/1000kVA
Bearing numbers:	1
Power Factor:	0.8
Speed Operation:	50Hz./1500 RPM.
Voltage Phase:	400/230V
Protection Class:	IP23
Altitude Condition:	≤1000M
Excitation system:	Brush-less, P.M.G.
Insulation class:	Rotor H / Stator H
AVR Accepted Speed warp:	4% @ Load 0-100 %
Load Surge regulation AVR:	3% @ 0.6 sec.
Voltage Regulation :	≤±1% Steady state PF.0.8-1 @0-100%load
Cooling:	Self turbine fan Build on rotor
Over Load:	>300 % 10sec. (Motor Inrush current sustained)

Genset Technical Data:

Voltage Setting Range:	≥±5%
Voltage Regulation:	±1%
Transient Voltage Deviation:	
--100% sudden power cut:	≤+25%
--Sudden power on	≤-20%
Voltage Stabilization Time:	
--100% sudden power cut:	≤ 6 s
--Sudden power on	≤ 6 s
Frequency Regulation:	±5%
Frequency Fluctuation Rate:	≤0.5%
Transient Frequency Deviation:	
--100% sudden power cut:	≤+12%
--Sudden power on	≤-10%
Frequency Recovery Time:	
--100% sudden power cut:	≤ 5 s
--Sudden power on	≤ 5 s



EPA&CARB



China



DEEPSEA DSE7320

Microprocessor Controller

- 3 phase AMF function
- Electronic microprocessor
- Software Configurable Power mode
- LCD back light Text 132 * 64 dot pixels display & LED Indicator
- Manual ,Stop,Auto, Test
- History Event log Record(250log)(C/F)
- 3 Phase Sensing
- Schedule runtime
- Silent LCD, LED Alarm
- ATS Control Command
- Battery backup memory
- RS232/485 Computer Communication port
- IP65 rating
- Setup & configuration (computer program)
- Modbus , CAN Bus Protocol Support

LCD/LED Displays Parameter

- Generator status Normal / Fail
- Status source selection supply load.
- 3Ph Main & Gen Voltage LL, LN, Current
- Diagnostics and alarm
- Gen Power Kw,Kwh ,Kva, Kvar, KVArh , PF
- Main & Gen Frequency (Hz)
- Engine/Lubricant Coolant Temperature(C/F)
- Engine Lubricant & Oil pressure (bar/Psi)
- Engine Speed operation Over/under (RPM.)
- Engine Hr. runtime & Real time clock
- Battery Voltage, current , charge & Charging Status
- Number of start
- Real time clock and timer
- Ambient Temperature C (F)
- Alternator exciter duty and governor duty

Warning & Alarm (Engine Auto Self stop And Reset able condition)

- Engine start Fail ,Running Fail
- Over / Under Oil pressure
- Over / Under Speed
- Engine Coolant over Temperature
- Over / Under voltage
- Silent LCD,LED Alarm
- Emergency Stop

Standard Configured

- Auto Main Fail: Enable
- Phase detect start : +/-10 % (1-20 sec. Adj.)
- Engine Delay Start : 0-20 sec (1-30 Adj.)
- Cool down time: 1-5 min.(1-30 Adj.)
- Attempts start: 3-5 Times/cycles (Timer duration 1-20sec. Adj)
- Exercise: 7 Day/1Times (1-5 min.) Adj.
- Recover Time 1-20 min. Adj.
- Transfer time 1-20 sec. Adj.