

| Engine specification | | | Alternator specification | |
|-------------------------------------|---------------------|-----|------------------------------------|--------------------------|
| Brand | CUMMINS | | Brand | STAMFORD |
| Model | 4B3.9-G1 | | Model | PI 144E |
| Air Intake System | Air natural cooled | | Number of Phase | 3 |
| Fuel System | A model fuel pump | | Connecting Type | “Y” type connecting |
| Cylinder Arrangement | 4 in line | | Number of Bearing | 1 |
| Displacement | 3.9L | | Power Factor | 0.8 |
| Bore×Stroke | 102*120 mm | | Protection Grade | IP23 |
| Compression Ratio | 16.5:1 | | Altitude | ≤1000m |
| Governor Type | Mechanical Governor | | Exciter Type | Brushless, self-exciting |
| Frequency Regulation, Steady State: | ≤1.5% | | Insulation Class, Temperature Rise | H/H |
| Starting system | E | | Alternator Capacity | 31.3KVA |
| Battery voltage | 12VDC | | Telephone Influence Factor (TIF) | <50 |
| Fuel consumption (GL/h) | | | THF | <2% |
| | 100% load | 4,4 | Voltage Regulation, Steady State | ≤±1% |
| | 75% load | 3,8 | Alternator Efficiencies | 85.4% |
| | 50% load | 2,6 | Air Cooling Flow | 0.09m3/s |

| Exhaust System | | Air Intake System | |
|---------------------|-----------|------------------------|-----------|
| Exhaust Gas Flow | 4.7m3/min | Max Intake Restriction | 5kPa |
| Exhaust Temperature | 410°C | Burning Capacity | 2.2m3/min |
| Max Back Pressure | 10kPa | Intake Flow | 150m3/min |

| Oil System | | Cooling System | |
|---------------------------|---------|------------------------|---------|
| Total Oil Capacity | 11L | Total Coolant Capacity | 21L |
| Oil Consumption | ≤4g/kwh | Thermostat | 82-95°C |
| Engine Oil Tank Capacity | 9.5L | Max Water Temperature | 104°C |
| Oil Pressure at Rated RPM | 345kPa | | |



Control system

Deepsea brand DSE6020 (Standard)

Features:

- Auto start and Auto mains failure control to the genset
- Display of generator cumulated electric energy
- Using microprocessor as a core, graphics LCD with big screen and backlight
- PC and front panel configuration
- Built-in speed/frequency detecting units can accurately judge the states such as crank success and over speed
- Modular configuration design, inserted type connection terminals, flush type installation, compact structure, easy installation
- All parameters use digital modulation, abandoning analog modulation using conventional electronic potentiometer, reliability and stability are increased
- Built-in watch dog can never be dead halt, ensuring smooth program execution
- Analog oil pressure, water temperature, fuel level, battery voltage, engine speed
- 3 phase Generator protections:
 - Over-/under voltage
 - Over-/under frequency
 - Current/voltage asymmetry
 - Overcurrent/overload



- Security password-protected programming levels
- Generator measurements (50/60 Hz): U1-U3, I1-I3, Hz, kW, kVAr, kWh

Deepsea brand DSE7320 (Option)

Features:

- Auto Mains (Utility) Failure control module
- Remote PC and via SMS textalerts (with external modem)
- LED and LCD alarm indication
- Include USB, RS232 and RS485 ports
- Support for up to three remote display units
- Generator measurements (50/60 Hz): U1-U3, I1-I3, Hz, kW, kVAr, kWh
- Charge alternator failure alarm
- 3 phase Generator protections:
 - Over-/under voltage
 - Over-/under frequency
 - Current/voltage asymmetry
 - Overcurrent/overload
- Analog oil pressure, water temperature, fuel level, battery voltage, engine speed
- Load switching (load shedding and dummy load outputs)
- CAN and Magnetic Pick-up/Alt.sensing
- Automatic load transfer

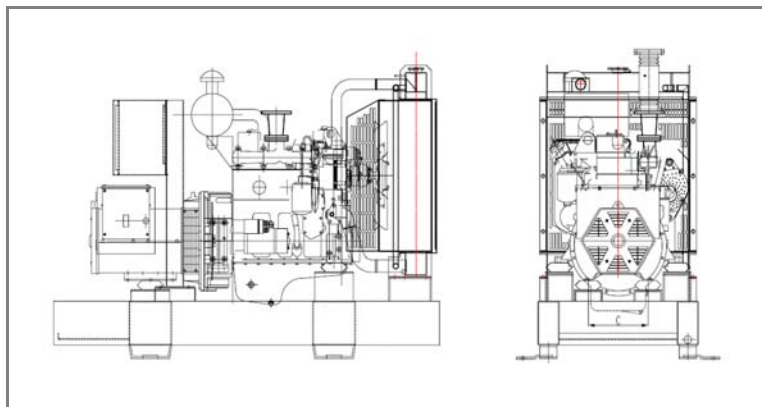




Optional parts

| Engine | Fuel System | Control System |
|-----------------------------|----------------------|-----------------------------|
| ● Heater | ● Daily Fuel Tank | ● Remote Control Panel |
| ● Battery Charger | ● Water Separator | ● Auto Transfer Switch |
| | ● Fuel Level Sensor | ● Paralleling System |
| Alternator | Others | Data |
| ● Anti Condensation Heater | ● Soundproof Type | ● Engine Parts Drawing List |
| ● Drop CT (For Paralleling) | ● Trailer Type | ● Spare parts |
| ● PMG | ● Containerized Type | |

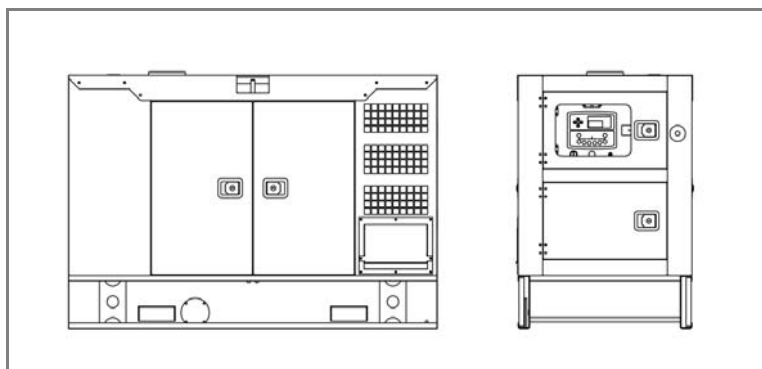
Dimension and Weight



Open Type Genset

Dimension: 1860x900x1400 mm

Weight: 750 kg



Soundproof Type Genset

Dimension: 2280x950x1510 mm

Weight: 1100 kg

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