



3 phase,60HZ@1800RPM

| | | |
|----------------------|-----|---------|
| Prime power | KVA | 45 |
| | KW | 36 |
| Standby power | KVA | 50 |
| | KW | 40 |
| Voltage | V | 440/254 |
| Ampere | A | 65.6 |



Notes:

- 1) Ambient condition: 1,000 m,25°C
- 2) Available in following voltages:220/127,208/120,416/240,440/254,460/266,480/277
- 3) Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820-97 (eqv ISO8528) ; A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation.
Standby Power Rating (ESP): The standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.

Features

- Engine (DCEC Cummins 4BT3.9-G1)
- Radiator 50°C max, fans are driven by belt, with safety guard
- Alternator: single bearing IP23, insulation class H/H)
- Main line circuit breaker
- Standard automatic control panel
- Batteries, rack and cable
- 24V charge alternator
- Absorber
- Dry type air filter, fuel filter, oil filter
- Ripple flex exhaust pipe, exhaust siphon, flange, muffler
- User manual

Performance Specification,Warranty and Criterion

| Performance Specification | | Telephone Influence Factor | |
|--|-----------------|---|-----|
| Voltage Regulation | ≥±5% | TIF | <50 |
| Voltage Regulation, Stead State | ≤±1% | THF | <2% |
| Sudden Voltage Warp (100% Sudden Reduce) | ≤+25% | Warranty Warranty is according to our standard conditions: a, 12 months, One year after installation; b, 1000 running hours (accumulated); subject to the earlier one. Service and parts are available from ENERGY360 or distributors in your location. | |
| Sudden Voltage Warp (Sudden Increase) | ≤-20% | | |
| Voltage Stable Time (100% Sudden Reduce) | ≤6S | | |
| Voltage Stable Time (Sudden Increase) | ≤6S | | |
| Frequency Reduce | 0-5% adjustable | | |
| Frequency Regulation, Stead State | ≤5% | | |
| Frequency Waving | ≤1.5% | | |
| Sudden Frequency Warp (100% Sudden Reduce) | ≤+12% | | |
| Sudden Frequency Warp (Sudden Increase) | ≤-10% | | |
| Frequency Recovery Time (100% Sudden Reduce) | ≤5S | | |
| Frequency Recovery Time (Sudden Increase) | ≤5S | | |
| | | Criterion <ul style="list-style-type: none"> ● Genset design comply to ISO8528/GB2820-97 ● Alternator design Compliance with GB755, BS5000, VDE0530, NEMAMG1-22, IED34-1, CSA22.2 and AS1359 standards | |



| Engine specification | | Alternator specification | | |
|-------------------------------------|------------------|------------------------------------|----------------------------------|-----------|
| Brand | CUMMINS | Brand | STAMFORD | |
| Model | 4BT3.9-G1 | Model | PI 144J | |
| Air Intake System | Turbo | Number of Phase | 3 | |
| Fuel System | A type 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 | RSV Mechanical | Exciter Type | Brushless, self-exciting | |
| Frequency Regulation, Steady State: | ≤1.5% | Insulation Class, Temperature Rise | H/H | |
| Starting system | E | Alternator Capacity | 47KVA | |
| 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 | 87.7% |
| | 50% load | 2,6 | Air Cooling Flow | 0.105m3/s |

| Exhaust System | | Air Intake System | |
|---------------------|-----------|------------------------|------------|
| Exhaust Gas Flow | 7.1m3/min | Max Intake Restriction | 6.35kPa |
| Exhaust Temperature | 487°C | Burning Capacity | 2.96m3/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

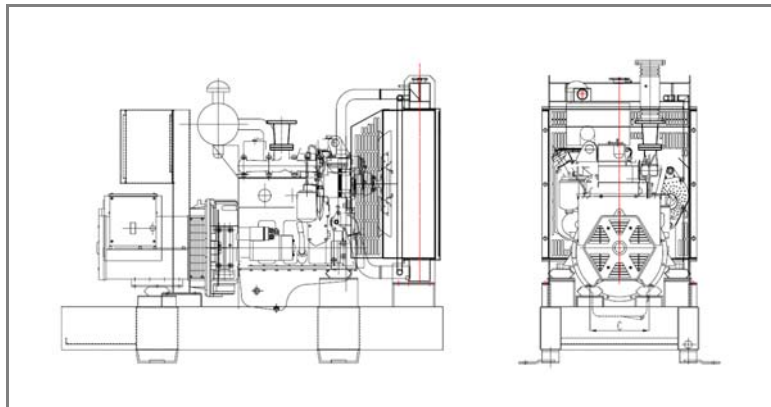




Optional parts

| 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 | |

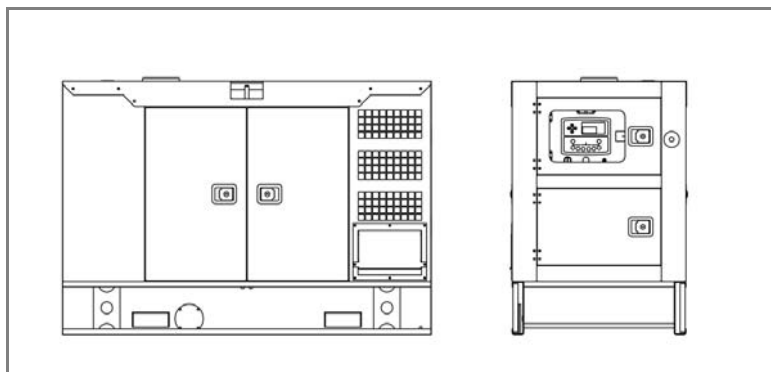
Dimension and Weight



Open Type Genset

Dimension: 1860×900×1400 mm

Weight: 950 kg



Soundproof Type Genset

Dimension: 2280×950×1510 mm

Weight: 1150 kg

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