

EGS160-8

Open Type



This is an imaged picture.
The radiator shall be changed

EGS160BS-8

Bonnet & Soundproof & Portable Type



RATED OUTPUT

| Frequency | | 50Hz (1,500 rpm) | | 60Hz (1,800 rpm) | |
|----------------|-----|--------------------------------|---------|--------------------------------|---------|
| Rating | | Prime | Standby | Prime | Standby |
| Rated | kVA | 129 | 145 | 155 | 173 |
| Output | kW | 103 | 116 | 124 | 138 |
| *Rated Voltage | | 380/220V,400/231V, 415/240V | | 440/254V,460/266V, 480/277V | |

* Rated Voltage : Line to Line / Line to Neutral

DESIGN FEATURES

- **Komatsu Diesel Engine**
 - High Quality, Reliability and Durability
 - High Output and Low Fuel Consumption
 - Light Weight and Compact Design
 - Low Noise and Low Vibration
 - Easy Maintenance
- **Proven Performance & Technology**
Komatsu EGS series diesel generator sets, the combination of Komatsu engine and reliable alternator, are manufactured under strict quality control standards.
- **Generator Control Panel**
EGS series generator sets have a compact and intelligent generator control module, which provides all the safety protections and its window displays both the AC and DC digital measurements.

CONDITIONS & DEFINITIONS

- **Prime Power Rating :**
Prime power is applicable for supplying electric power at variable load for an unlimited number of hours per year.
A 10% additional power is provided for governing purpose.
Average of variable load shall not exceed 70% of the prime power rating.
This rating is set in accordance with ISO 8528.
- **Standby Power Rating :**
Standby power is applicable for supplying emergency power at variable load in areas where reliable utility is available.
The total operating time at variable load shall not exceed 200 hours per year and the total operating time at Standby power shall not exceed 25 hours per year.
This rating is set in accordance with ISO 3046-1, DIN6271 and BS 5514.

SPECIFICATIONS

ENGINE

- **Model : Komatsu SAA6D102E-P150**
- **Rated Output, Net (With Fan)**

| Eng. Speed | | 1,500 rpm (50Hz) | | 1,600 rpm (60Hz) | |
|------------|----|------------------|---------|------------------|---------|
| Rating | | Prime | Standby | Prime | Standby |
| Rated | HP | 151 | 170 | 181 | 204 |
| Output | kW | 113 | 127 | 135 | 152 |

- **Fuel Consumption (Approximately)**

| Hz | Load, % | 25% | 50% | 75% | 100 % |
|----|----------------|------|------|------|-------|
| 50 | Generator, kVA | 32 | 65 | 97 | 129 |
| | Fuel, Liter/H | 8.9 | 15.6 | 21.2 | 29.7 |
| 60 | Generator, kVA | 39 | 78 | 116 | 155 |
| | Fuel, Liter/H | 11.2 | 19.1 | 25.8 | 36.4 |

Type ----- 4-stroke Cycle, Water Cooled, Overhead Valve, Direct Injection

Speed Regulation ---- Droop within 5% (Mechanical Governor)

Aspiration ----- Turbocharged

Cylinder Arrangement · 6 in-line

Bore x Stroke ----- 102 mm x 120 mm

Piston Displacement - 5.88 liters

Starting Method ----- Electric Motor, 24V - 4.5 kW x 1

Charging Alternator --- DC24V-25A

Lubrication ----- Forced Lubrication by Gear Pump

Lube Oil Filter ----- Full-flow, Spin On/Off Type Cartridge

Fuel Oil Filter ----- Spin On/Off Type Cartridge

Air Cleaner ----- Dry, Cyclopac 2 Stages of Paper Element with Dust Evacuator Valve

Oil Capacity ----- Oil Pan (H/L) : 20/15 liters
System Total : 22 liters

Coolant Capacity ---- Engine : 10 liters
Radiator : 15 liters

ALTERNATOR

Rated Power Factor ----- 0.8

Excitation ----- Self Excited, Brushless

Cooling ----- Self Ventilation

Automatic Voltage Regulator · Equipped in Alternator

Number of Pole ----- 4

Rotor Supporting Type ----- Single Bearing

Degree of Protection ----- Screen Protected (IP23)

Number of Wire ----- 3-Phase / 4-Wires

Insulation Class ----- Class H

Insulation Resistance ----- More than 3 Mohms
 Voltage Regulation ----- ± 1.0 %
 Total Harmonic, TGH / THC -- < 4%
 Waveform, NEMA = TIP ----- < 50
 Waveform, IEC = THF ----- < 2%

APPLICABLE CONDITIONS

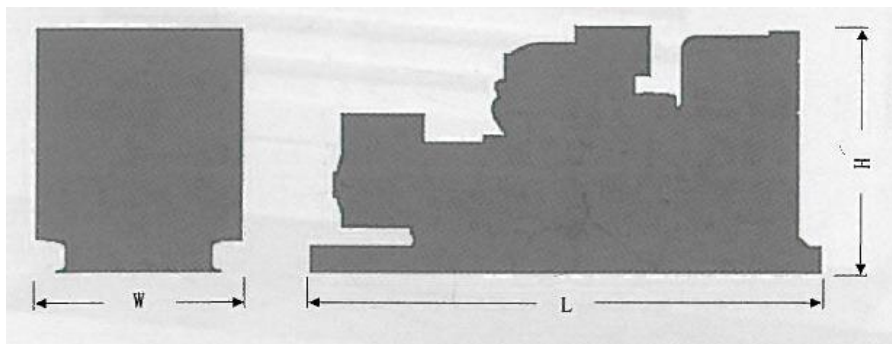
Ambient Temperature : 0 ~ 40 °C
 Altitude : Maximum 1,000 m
 Ambient Humidity : Under 80 %

DIMENSIONS

Unit : mm

EGS160-8 Open Type

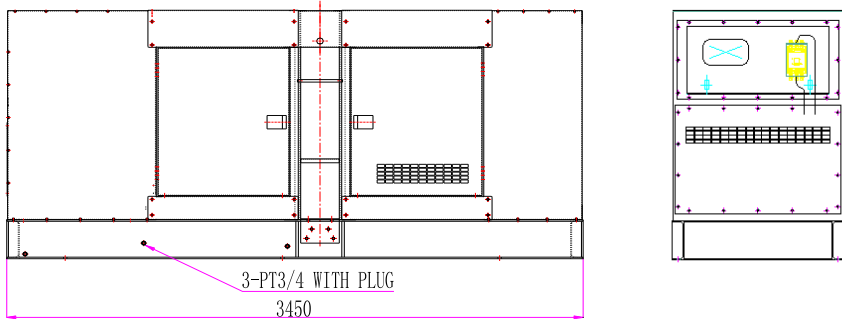
Weight : Approx. 1,650 kg



L 2,550 x W 950 x H 1,610

EGS160BS-8 Bonnet and Soundproof and portable Type

Weight : Approx. 2,700 kg



L 3,450 x W 1150 x H 1,600

STANDARD / OPTIONAL ACCESSORIES

● : Standard ○ : Optional

| Generator Set | | |
|--|--|---|
| Main components mounted on the skid base. (Engine, Alternator, MCCB, Control Panel and Lead Acid Battery) | | ● |
| Rated Voltage : AC 200V or 220V class | | ○ |
| Engine | | |
| Engine Stop Method : Energized in run mode (Electric Stop Solenoid is mounted to the Fuel Lever) | | ● |
| Muffler | Industrial (Open Type) | ● |
| | Residential (Bonnet and Soundproof Type) | ● |
| | Residential (Open Type) | ○ |
| Corrosion Resistor and Water Separator | | ● |
| Engine Speed Control System | | |
| Fixed Lever Type | | ● |
| Electronic Speed Controller and Actuator | | ○ |
| Cold Starting Aid | | ○ |
| Alternator | | |
| Anti-condensation Heater | | ○ |
| Control Components | | |
| Generator Control Module | | ● |
| Automatic Start / Stop Type | | |
| Mode Switch : OFF / AUTO / MAN | | |
| Built-in AC and DA Digital Measurements | | |
| Basic Icon for Annunciation | | |
| Built-in AMF Function | | |
| Capable for Remote Signal, Monitoring and Control System (Remote Control cable is optional) | | |
| Engine Oil Temperature Gauge | | ○ |
| Analogue Tachometer (Magnetic Pick Up Type) | | ○ |
| Emergency Stop Push-button | | ● |
| MCCB | Shunt Trip Coil | ● |
| | Under Voltage Trip Type | ○ |
| Voltage Trimmer (Potentiometer) | | ○ |
| Battery Charger | | ○ |
| Fuel Tank | | |
| Skid Base Tank Type(Open Type) | | ○ |
| Skid Base Tank Type(BS Type) 230L | | ● |
| Self-Standing Tank Type | | ○ |
| Control System | | |
| Synchronizing Panel | | ○ |
| Self-Standing ATS Panel | | ○ |

Materials and specifications are subject to be changed without notice.

