

## DIESEL GENERATOR SET

<b>EGS120-8</b>	<b>EGS160-8</b>
Open Type	Open Type



This is an imaged picture.  
The radiator shall be changed

### RATED OUTPUT (EGS120-8)

		50Hz (1,500 rpm)		60Hz (1,800 rpm)	
Rating		Prime	Standby	Prime	Standby
Rated Output	kVA	100	110	118	129
	kW	80	88	94	103
*Rated Voltage		380/220V,400/231V,415/240V		440/254V,460/266V,480/277V	

\* Rated Voltage : Line to Line / Line to Neutral

### RATED OUTPUT (EGS160-8)

		50Hz (1,500 rpm)		60Hz (1,800 rpm)	
Rating		Prime	Standby	Prime	Standby
Rated Output	kVA	129	145	155	173
	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-P130

##### ● Rated Output, Net (With Fan)

		1,500 rpm (50Hz)		1,800 rpm (60Hz)	
Rating		Prime	Standby	Prime	Standby
Rated Output	HP	131	144	155	170
	kW	98	107	115	127

##### ● Model : Komatsu SAA6D102E-P150

##### ● Rated Output, Net (With Fan)

		1,500 rpm (50Hz)		1,800 rpm (60Hz)	
Rating		Prime	Standby	Prime	Standby
Rated Output	HP	151	170	181	204
	kW	113	127	135	152

##### ● Fuel Consumption (Approximately) EGS120-8P

Hz	Load, %	25%	50%	75%	100 %
50	Fuel, Liter/H	7.9	13.0	20.3	25.7
60	Fuel, Liter/H	8.9	14.2	23.6	31.9

##### ● Fuel Consumption (Approximately) EGS160-8P

Hz	Load, %	25%	50%	75%	100 %
50	Fuel, Liter/H	8.9	15.6	21.2	29.7
60	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 (with Brush)
- 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 : 9 liters(120) 10liters(160)  
Radiator : 13 liters (120) 15liters(160)

#### 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**

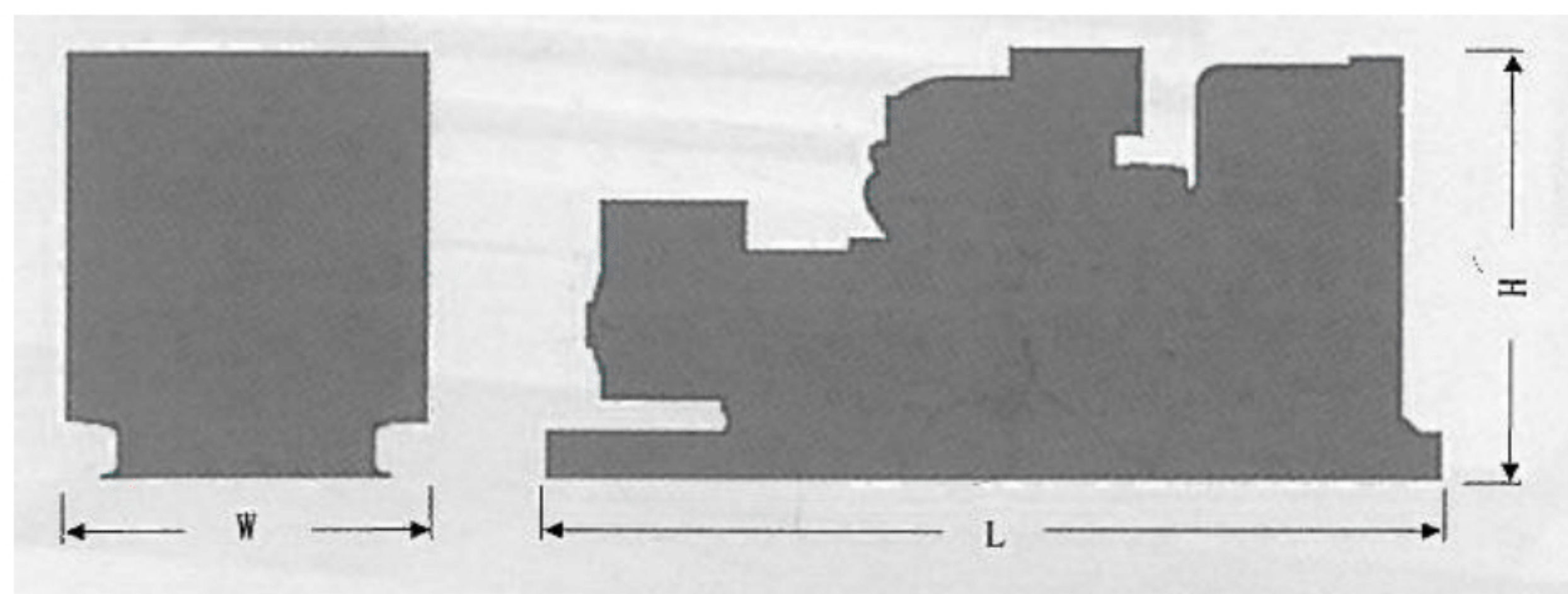
Ambient Temperature : 0 ~ 40 °C  
 Altitude : Maximum 1,500 m  
 Ambient Humidity : Under 80 %

**DIMENSIONS**

Unit : mm

**EGS120-8**

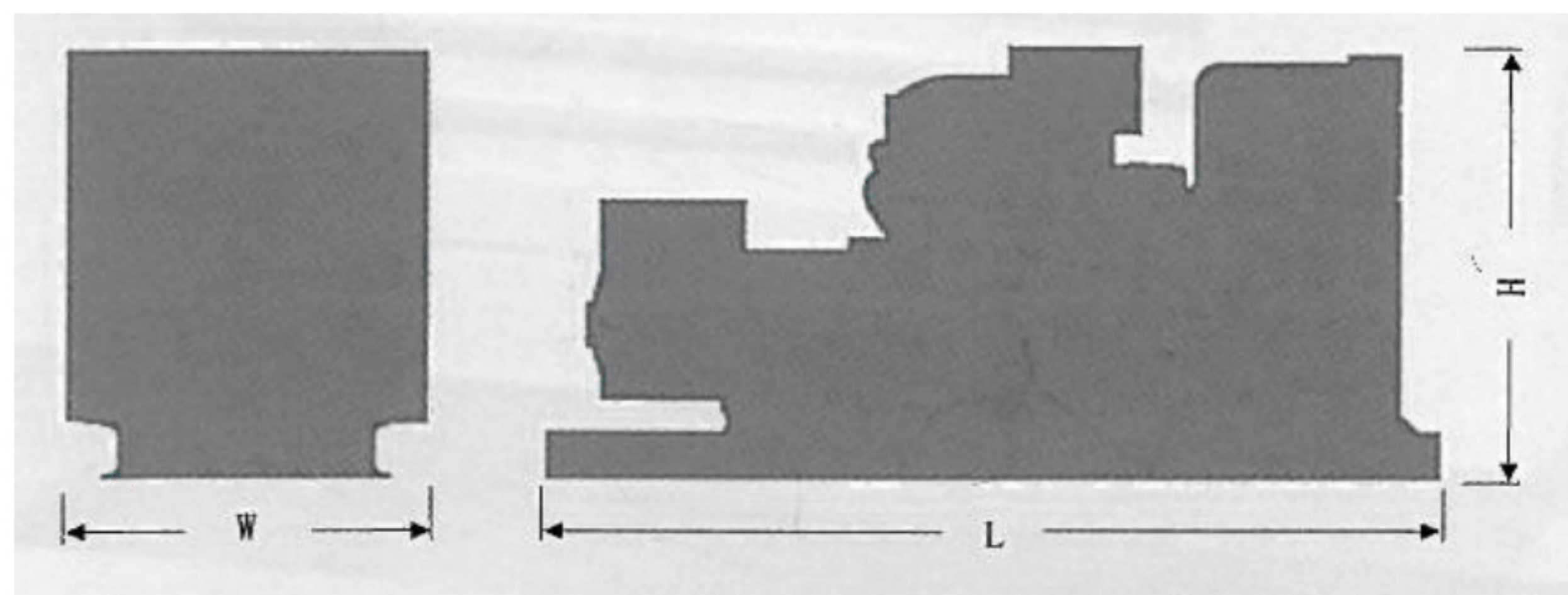
Weight : Approx. 1400 kg



L 2400× W 950× H 1550

**EGS160-8**

Weight : Approx. 1650 kg



L 2550× W 950× H 1610

**STANDARD / OPTIONAL ACCESSORIES**

● : Standard ○ : Optional

<b>Generator Set</b>		
Main components mounted on the skid base. ( Engine, Alternator, MCCB, Control Panel and Lead Acid Battery )		●
Rated Voltage : AC 200V or 220V class		○
<b>Engine</b>		
Engine Stop Method : Energized in run mode (Electric Stop Solenoid is mounted to the Fuel Lever )		●
Muffler	Residential (Type)	●
Corrosion Resistor and Water Separator		●
Engine Speed Control System		
	Fixed Lever Type	●
	Electronic Speed Controller and Actuator	○
Cold Starting Aid		○
<b>Alternator</b>		
Anti-condensation Heater		○
<b>Control Components</b>		
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		○
<b>Fuel Tank</b>		
Skid Base Tank Type(BS Type)		200L ○
Self-Standing Tank Type		○
Fuel Tank		●
<b>Control System</b>		
Synchronizing Panel		○
Self-Standing ATS Panel		○

Materials and specifications are subject to be changed without notice.

