



## DIESEL GENERATOR SET

EGS500-6	EGS500BS-6
Open Type	Bonnet & Soundproof Type



### RATED OUTPUT

Frequency	60Hz (1,800 rpm)		
Rating	Prime	Standby	
Rated	kVA	505	556
Output	kW	404	444
Rated Voltage *	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 SAA6D140-P460
- **Rated Output, Net (With Fan)**

Eng. Speed	1,800 rpm (60Hz)		
Rating	Prime	Standby	
Rated	HP	577	635
Output	kW	430	474

- **Fuel Consumption (Approximately)**

Hz	Load, %	25%	50%	75%	100 %
60	Generator, kVA	126	252	378	505
	Fuel, Liter/H	35	58	83	108

Type ----- 4-stroke Cycle, Water Cooled, Overhead Valve, Direct Injection  
 Speed Regulation ---- Droop within 5% (Mechanical Governor)  
 Aspiration ----- Turbocharged Air to Air Aftercooled  
 Cylinder Arrangement - 6 in-line  
 Bore x Stroke ----- 140 mm x 165 mm  
 Piston Displacement - 15.24 liters  
 Starting Method ----- Electric Motor, 24V - 7.5 kW x 1  
 Charging Alternator --- DC24V-35A (Brushless)  
 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) : 68/48 liters  
 System Total : 74 liters  
 Coolant Capacity ---- Engine : 27 liters  
 Radiator : 45 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 (IP22)  
 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

**EGS500-6 Open Type**

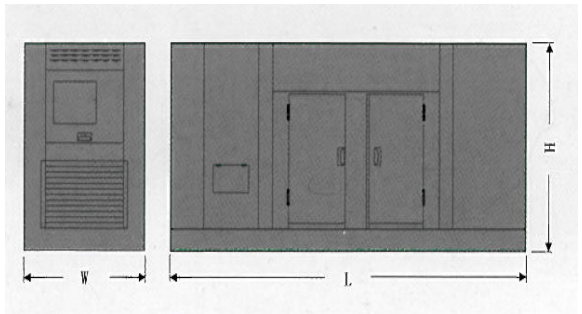
Weight : Approx. 3,700 kg



L 3,500 x W 1,410 x H 1,840

**EGS500BS-6 Bonnet and Soundproof Type**

Weight : Approx. 6,300 kg



L 5,040 x W 1,870 x H 2,200

Materials and specifications are subject to be changed without notice.



**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	○
	Motorized Breaker	○
Voltage Trimmer (Potentiometer)		○
Battery Charger		○
Fuel Tank		
Skid Base Tank Type(Open Type)		○
Skid Base Tank Type(BS Type)		600L ●
Self-Standing Tank Type		○
Control System		
Synchronizing Panel		○
Self-Standing ATS Panel		○