



DIESEL GENERATOR SET

EGS300-6	EGS300BS-6
Open Type	Bonnet & Soundproof Type



■ RATED OUTPUT

Frequency	50Hz (1,500 rpm)		60Hz (1,800 rpm)		
	Rating	Prime	Standby	Prime	Standby
Rated	kVA	276	304	303	333
Output	kW	221	243	242	266
*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 SA6D125-2
- **Rated Output, Net (With Fan)**

Eng. Speed	1,500 rpm (50Hz)		1,600 rpm (60Hz)		
	Rating	Prime	Standby	Prime	Standby
Rated	HP	319	351	350	385
Output	kW	238	262	261	287

- **Fuel Consumption (Approximately)**

Hz	Load, %	25%	50%	75%	100 %
50	Generator, kVA	69	138	207	276
	Fuel, Liter/H	19	31	43	59
60	Generator, kVA	76	151	227	302
	Fuel, Liter/H	21	35	48	66

- Type ----- 4-stroke Cycle, Water Cooled, Overhead Valve, Direct Injection
- Speed Regulation ---- Droop within 5% (Mechanical Governor)
- Aspiration ----- Turbocharged Aftercooled
- Cylinder Arrangement - 6 in-line
- Bore x Stroke ----- 125 mm x 150 mm
- Piston Displacement - · 11.04 liters
- Starting Method ----- Electric Motor, 24V - 5.5 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) : 36/24.5 liters
System Total : 40 liters
- Coolant Capacity ---- Engine : 20 liters
Radiator : 40 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

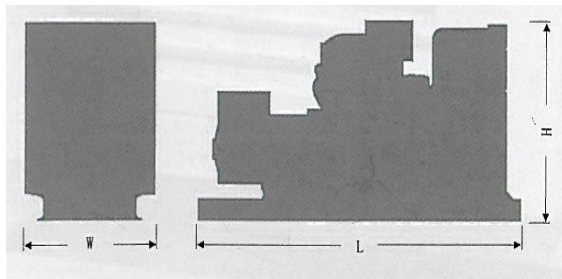
Ambient Temperature : 0 ~ 40 °C
 Altitude : Maximum 1,000 m
 Ambient Humidity : Under 80 %

DIMENSIONS

Unit : mm

EGS300-6 Open Type

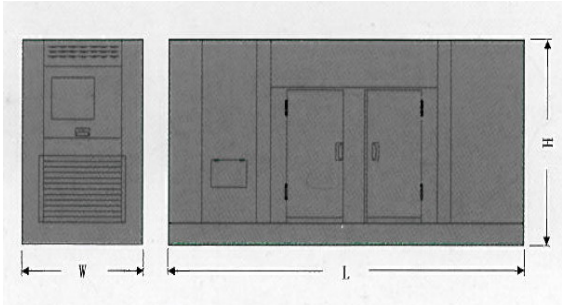
Weight : Approx. 2,700 kg



L 3,000 x W 1,120 x H 1,680

EGS300BS-6 Bonnet and Soundproof Type

Weight : Approx. 4,400 kg



L 4,040 x W 1,590 x H 2,170

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)		570L ●
Self-Standing Tank Type		○
Control System		
Synchronizing Panel		○
Self-Standing ATS Panel		○

Materials and specifications are subject to be changed without notice.

