

DIESEL GENERATOR SET

EGS850-6	EGS850BS-6
Open Type	Bonnet & Soundproof Type



SPECIFICATIONS
ENGINE

- Model : Komatsu SAA6D170-P800
- Rated Output, Net (With Fan)

Engine Speed		1,500 rpm (50Hz)	
Rating		Prime	Standby
Output	HP	800	880
	kW	597	656

- Fuel Consumption (Approximately)

Hz	Load, %	25%	50%	75%	100 %
50	Generator, kVA	176	353	529	705
	Fuel, Liter/H	45	80	115	151

RATED OUTPUT

Frequency		50Hz (1,500 rpm)	
Rating		Prime	Standby
Rated Output	kVA	705	776
	kW	564	620
Rated Voltage *		380/220V, 400/231V, 415/240V	

* 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

● **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.

- Easy Maintenance : Minimize control components and wirings
- High Reliability : 16-bit microprocessor technology in printed circuit board
- Easy Recognition: clear icon based language free can identify engine status more directly
- Built-in AMF Function: Auto Start / Stop when mains failure occurred

The control panel will automatically shut down the generator set when fault occurred, then indicating the failure and providing audible alarm.

CONDITIONS & DEFINITIONS

● **Prime Power Rating :**

Applicable for supplying electric power with varying load of an unlimited number of hour per year or 70% constant load.

This rating is set in accordance with ISO 8528

● **Standby Power Rating :**

Applicable for supplying emergency power at variable loads in areas where reliable utility is available. The operating hours shall not exceed one hour in 12 hours operation.

This rating is set in accordance with ISO 3026-1, din 6271 and BS 5514

- Type ----- 4-stroke Cycle, Water Cooled, Overhead Valve, Direct Injection
- Speed Regulation ----- Electronic Governor
- Aspiration ----- Turbocharged Air to Air Aftercooled
- Cylinder Arrangement -- 6 in-line
- Bore x Stroke ----- 170 mm x 170 mm
- Piston Displacement --- 23.15 liters
- Starting Method ----- Electric Motor, 24V - 11 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) : 135/66 liters
System Total : 147 liters
- Coolant Capacity ----- Engine : 43 liters
Radiator : 58 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 ----- ± 0.5 %
- Total Harmonic, TGH / THC - < 4%
- Waveform, NEMA = TIP ----- < 50
- Waveform, IEC = THF ----- < 2%

APPLICABLE CONDITIONS

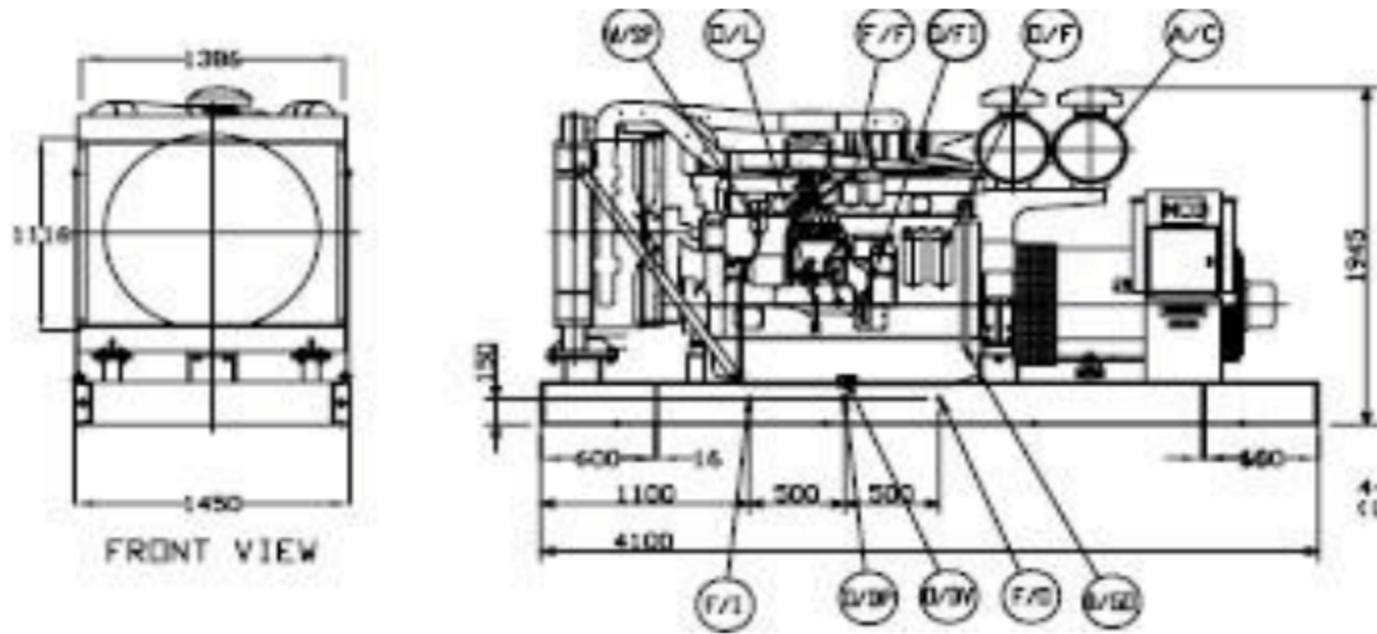
- Ambient Temperature : 0 ~ 40 °C
- Altitude : Maximum 1,000 m
- Ambient Humidity : Under 80 %

DIMENSIONS

Unit : mm

EGS850-6 Open Type

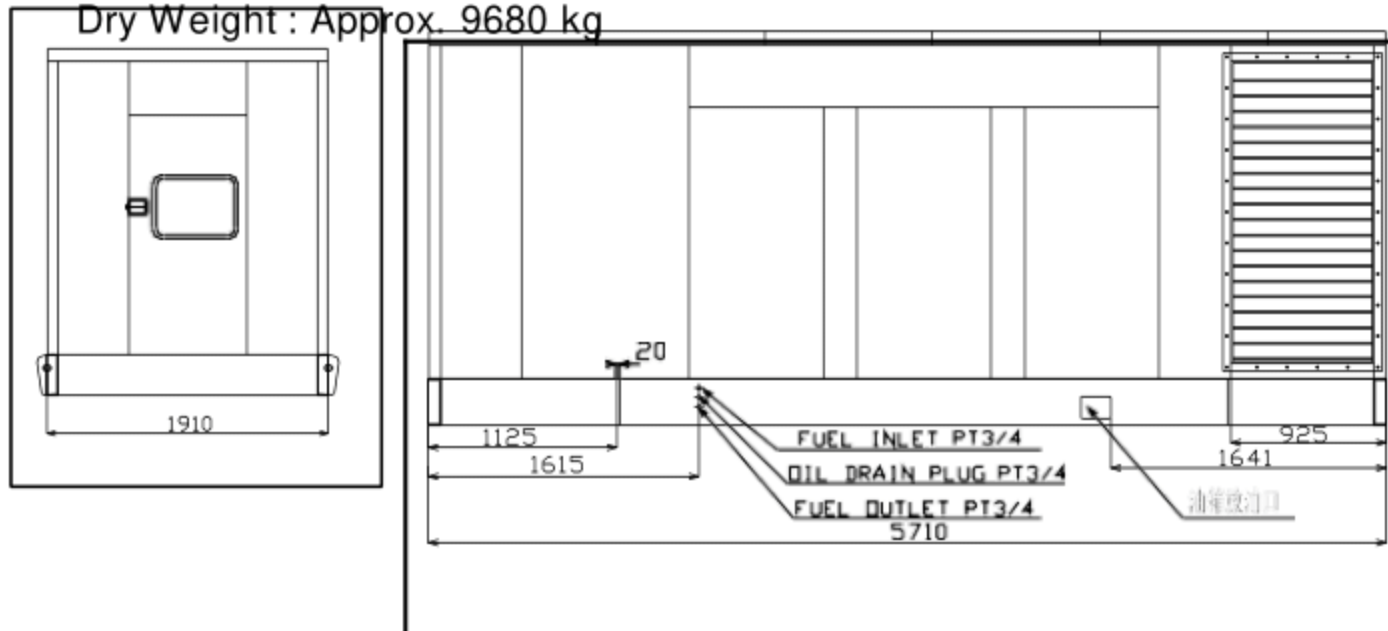
Dry Weight : Approx. 5900 kg



4100×1450×1950

EGS850BS-6 Bonnet and Soundproof Type

Dry Weight : Approx. 9680 kg



5710×2050×2550

Materials and specifications are subject to be changed without notice.

KOMATSU

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 (non-bonnet type)	●
		Residential (bonnet type)	●
		Residential (non-bonnet type)	○
●	Corrosion Resistor and Water Separator	●	
●	Engine Speed Control System		
	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)	○	
●	Speed Trimmer (Potentiometer)	○	
●	Battery Charger	○	
Fuel Tank			
●	Skid Base Tank Type(Open Type)	○	
●	Self-Standing Tank Type	○	
Control System			
●	Synchronizing Panel	○	
●	Self-Standing ATS Panel	○	