

DIESEL GENERATOR SET

EGS120-6

Open Type

EGS120BS-6

Bonnet & Soundproof Type



SPECIFICATIONS

ENGINE

- Model : Komatsu S6D102E-1
- Rated Output, Net (With Fan)

Engine Speed		1,500 rpm (50Hz)	
Rating		Prime	Standby
Output	HP	124	144
	kW	92.7	107.4

- Fuel Consumption (Approximately)

Hz	Load, %	25%	50%	75%	100 %
50	Generator, kVA	25.0	50.0	75.0	100.0
	Fuel, Liter/H	7.6	13.1	19.2	25.2

RATED OUTPUT

Frequency		50Hz (1,500 rpm)	
Rating		Prime	Standby
Rated Output	kVA	100	110
	kW	80	88
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	-----	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 Radiator : 10 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

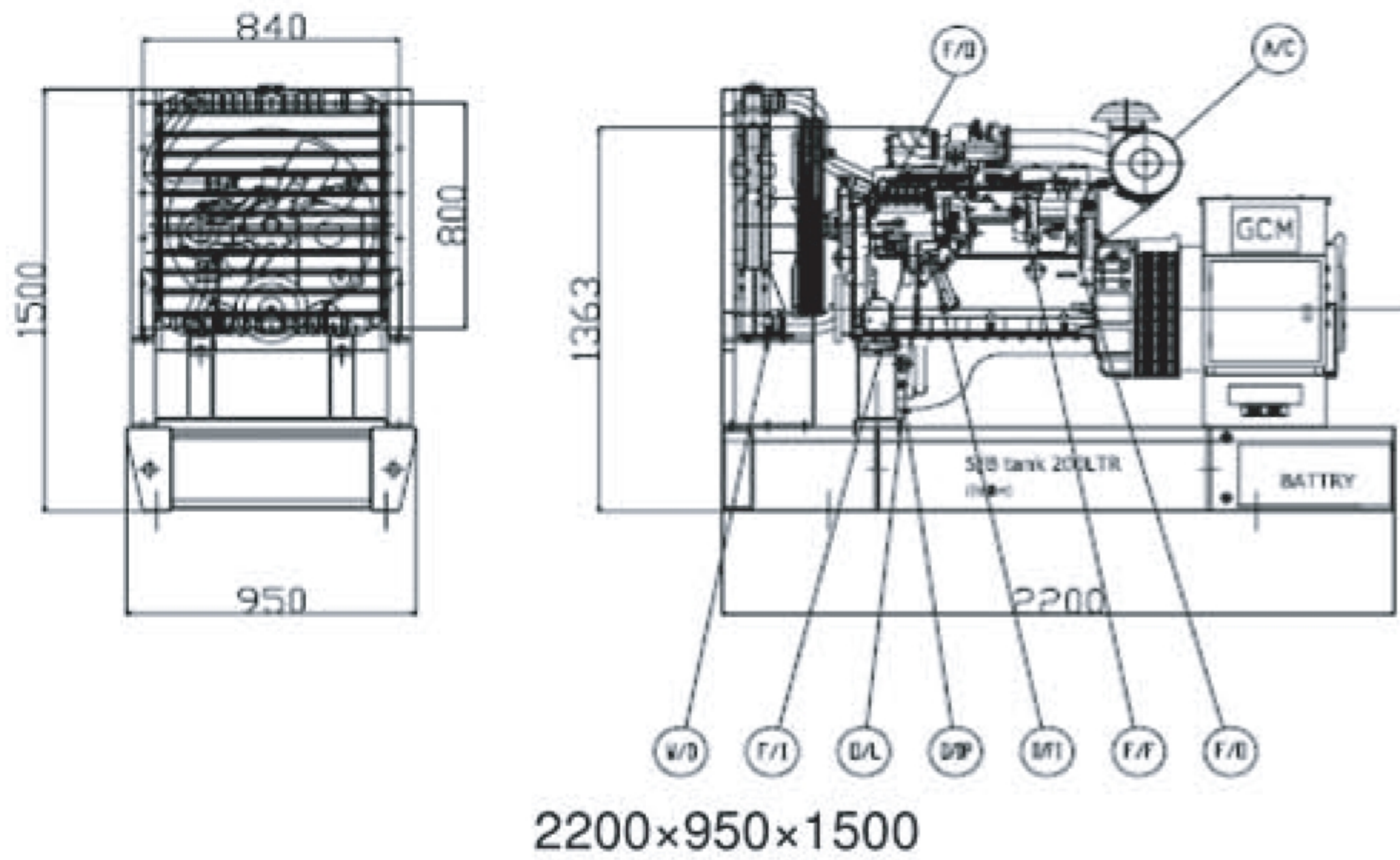
Ambient Temperature	:	0 ~ 40 °C
Altitude	:	Maximum 1,000 m
Ambient Humidity	:	Under 80 %

DIMENSIONS

Unit : mm

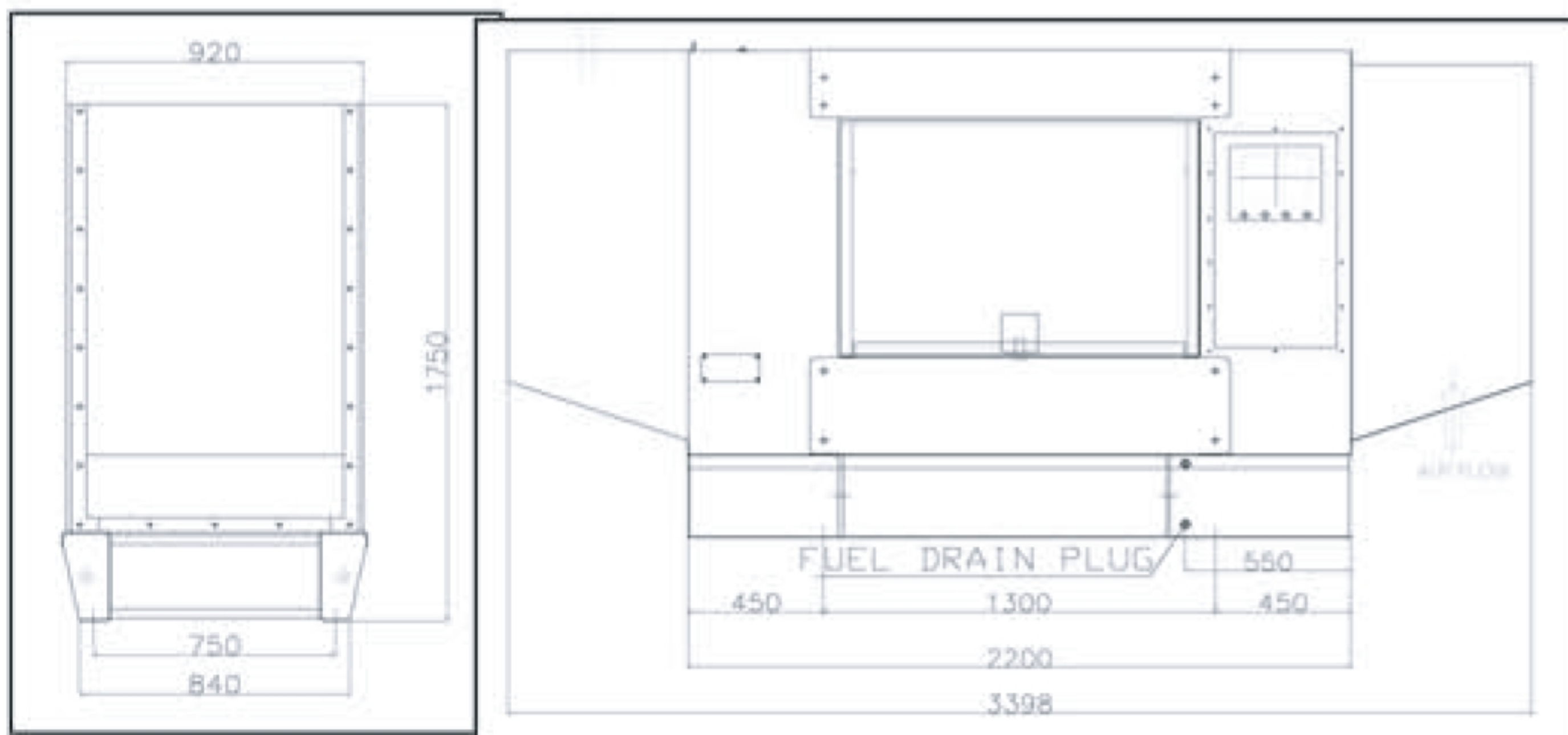
EGS120-6 Open Type

Dry Weight : Approx. 1300 kg



EGS120BS-6 Bonnet and Soundproof Type

Dry Weight : Approx. 1880 kg



3400x920x1750

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
 - 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) ○
- 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 ○

Materials and specifications are subject to be changed without notice.

KOMATSU

