



DIESEL GENERATOR SET

EGS45-6	EGS45BS-6
Open Type	Bonnet & Soundproof Type



RATED OUTPUT

		50Hz (1,500 rpm)		60Hz (1,800 rpm)	
Rating		Prime	Standby	Prime	Standby
Rated	kVA	35	39	41	45
Output	kW	28	31	33	36
*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 4D95LE-2**
- **Rated Output, Net (With Fan)**

		1,500 rpm (50Hz)		1,600 rpm (60Hz)	
Rating		Prime	Standby	Prime	Standby
Eng. Speed		1,500 rpm (50Hz)		1,600 rpm (60Hz)	
Rated	HP	41.7	46.6	49.2	53.9
Output	kW	31.1	34.8	36.7	40.2

- **Fuel Consumption (Approximately)**

Hz	Load, %	25%	50%	75%	100 %
50	Generator, kVA	8.8	17.5	26.3	35.0
	Fuel, Liter/H	2.3	4.2	6.2	8.0
60	Generator, kVA	10.0	20.0	30.0	41.0
	Fuel, Liter/H	3.0	5.3	7.6	9.8

Type ----- 4-stroke Cycle, Water Cooled, Overhead Valve, Direct Injection

Speed Regulation ---- Droop within 5% (Mechanical Governor)

Aspiration ----- Natural

Cylinder Arrangement - 4 in-line

Bore x Stroke ----- 95 mm x 115 mm

Piston Displacement - 3.26 liters

Starting Method ----- Electric Motor, 12V - 2.2 kW x 1

Charging Alternator --- DC12V-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) : 7.0/5.5 liters
System Total : 8 liters

Coolant Capacity ---- Engine : 4.5 liters
Radiator : 5.8 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

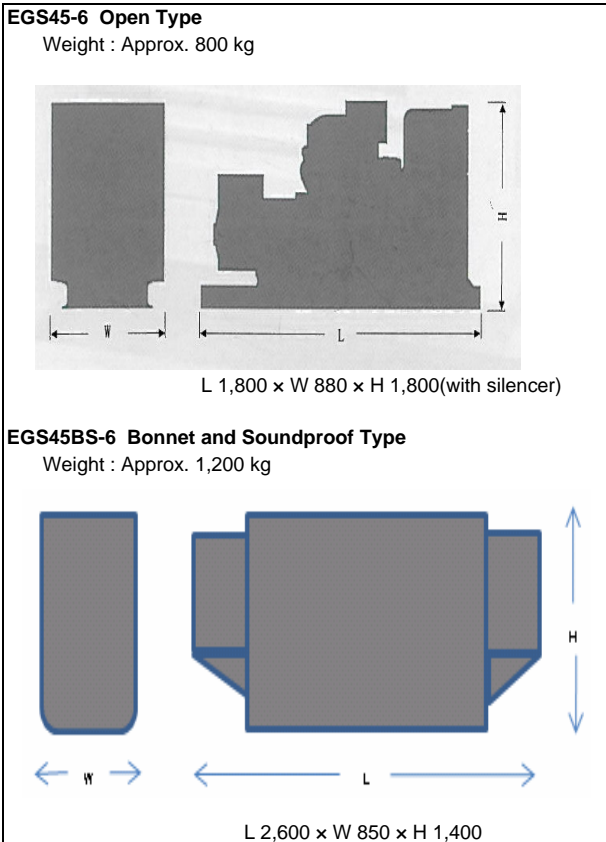
Insulation Resistance ----- More than 3 Mohms
 Voltage Regulation ----- ± 1.0 %
 Total Harmonic, TGH / THC ----< 4%
 Waveform, NEMA = TIP ----- < 50
 Waveform, IEC = THF -----< 2%

APPLICABLE CONDITIONS

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

DIMENSIONS

Unit : mm



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)		150L ●
Self-Standing Tank Type		○
Control System		
Synchronizing Panel		○
Self-Standing ATS Panel		○

Materials and specifications are subject to be changed without notice.

