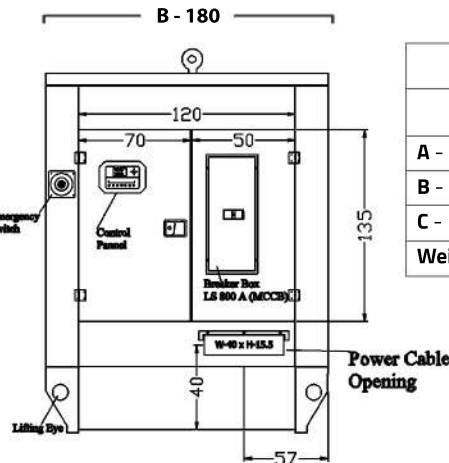
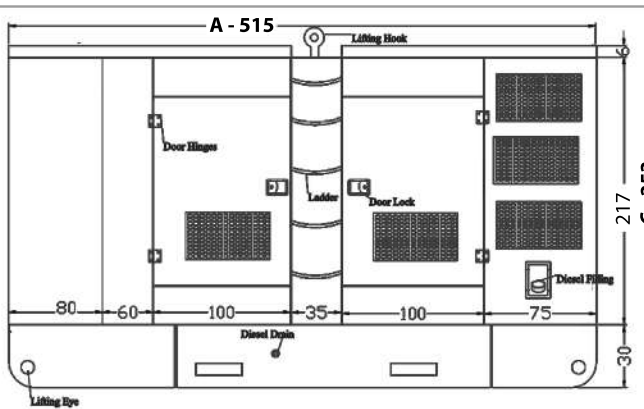


# GES K500 KVA GENSET DATASHEET



## Weight and Dimensions



GES K500 KVA		
	Close Type	Open Type
A - Length	515 cm	350 cm
B - Width	180 cm	151 cm
C - Height	253 cm	185 cm
Weight	5500 kg	4400 kg

## DESIGN FEATURES

- High quality, reliability and durability
- High output and low fuel consumption
- Light weight and compact design
- Low noise and low vibration
- Easy maintenance

## Ratings @ 0.8 PF, 3 PHASE

FREQUENCY	50 Hz (1500 rpm)		
	Rating	Prime	Standby
Rated Output	kVA	500	550
	kW	400	440
Rated Voltage *	380 / 220V, 400 / 231V, 415 / 240V		

\* Rated Voltage : Line to Line / Line to Neutral

### Prime Power

Power available at variable load in lieu of main power network for unlimited number of hours per year. An overload of 10% permitted for one hour in every twelve hours of operation. Average of variable loads shall not exceed 70% of the prime rating. This rating is set in accordance with ISO 8528.

### Standby Power

Power available at a variable load in the event of a main power network failure up to a maximum of 500 hours per year. No overload is permitted. This rating is set in accordance with ISO 3046-1, DIN6271 and BS 5514.

### Proven Performance & Technology

GES series diesel generator sets, the combination of Komatsu engine and reliable alternator, are manufactured under strict quality control standards.

### Generator Control Panel

GES series generator sets have a compact and intelligent generator control module, which provides all the safety precautions and its window display both the AC and DC digital measurements.

### Disclaimer:

Due to our policy of continuous improvement all information on this data sheet are correct at the time of printing and may altered subsequently.

## ENGINE DETAILS

MODEL	Komatsu SAA6D140 - P 580
TYPE	4 Stroke Cycle, Water Cooled, Overhead Valve, Direct Injection
SPEED REGULATION	Droop within 5% (Mechanical Governor)
ASPIRATION	Turbocharged, Air-Cooled type after cooler
CYLINDER ARRANGEMENT	6 in line
BORE x STROKE	140 mm x 165 mm
PISTON DISPLACEMENT	15.24 liters
STARTING METHOD	Electric Motor, 24V - 7.5kW x 1
CHANGING ALTERNATOR	DC24V-25A (Brushless)
LUBRICATION	Forced Lubrication by Gear Pump
LUBE OIL FILTER	Cartridge Type
FUEL OIL FILTER	Cartridge Type
AIR CLEANER	Centrifugal paper filter type with auto discharge valve
OIL CAPACITY	Total : 68 liters
COOLANT CAPACITY	Total : 86 liters

## ALTERNATOR DETAILS

Make & Model	Leroy Somer TAL 047 C / TAL 0473 C
Frequency / Pole	50 Hz / 4 Pole
Rated Power Factor	0.8 lag
Excitation	Shunt, Brushless
Cooling	Self Ventilation
Automatic Voltage Regulator	R150
Number of Poles	4 pole
Rotor Supporting Type	Single Bearing
Degree of Protection	IP23
Number of Wire	6 (12*)
Insulation Class	Class H
Voltage Regulation	± 1 %
Total Harmonic Distortion THD	< 2.5 % in no load and < 5% in linear load
Waveform, NEMA = TIF	< 50
Waveform, IEC = THF	< 2 %

\* Optional

## GENSET DETAILS

CONTROLLER	DSE 7320 MK II
BASE FRAME	Heavy-duty fabricated steel
ENGINE SPEED	1500 rpm
CIRCUIT BREAKER	3 Pole MCCB LSIS Korea
FUEL TANK CAPACITY	900 L
AIR INLET	Mounted Air Filter
FUEL SYSTEM	Mechanical pump governor, Direct Injection
LUBRICATION SYSTEM	Wet steel sump with filter and dipstick
COOLING SYSTEM	Thermostatically - controlled system with gear driven circulation pump & pusher fan Mounted radiator, piping and guards
ELECTRICAL EQ.	24 V Starter, 25 A Alternator Oil pressure and coolant temp. switches
FLYWHEEL / HOUSING COUPLING	Directly coupled SAE 0- 18

Scan For the E-version



## EXHAUST SYSTEM @ 1500 RPM

MAX. BACK PR Kpa	10.0	
EXHAUST GAS FLOW m <sup>3</sup> /min	Prime	Standby
	76	81
EXHAUST GAS TEMP. C(F)	520	550

## FUEL CONSUMPTION (Approximately)

Hz	Load, %	50%	75%	100%	110%
50	Fuel, Liter / H	54	78	106	119

## Standard / Optional Accessories *S = Standard O = Optional*

	S	O
<b>GENERATOR SET</b> Main Component mounted on the skid base (Engine, Alternator, MCCB, Control Panel and Lead Acid Battery)		
<b>ENGINE</b> Engine stop Method: Energized in run mode (Electric Stop Solenoid is mounted to the fuel lever)		
<b>Muffler</b> Industrial (Open Type) Residential (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		
<b>ALTERNATOR</b> Anti-condensation Heater		
<b>CONTROL COMPONENTS</b> 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 (DSE 7320, 6110) Capable for remote Signal, Monitoring & 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		
Voltage Trimmer (Potentionmeter)		
Battery Charger		
<b>FUEL TANK</b> Open Type 900L <b>SOUND PROOF</b> Type 900L		
<b>CONTROL SYSTEM</b> Synchronizing Panel Self-Standing ATS Panel		