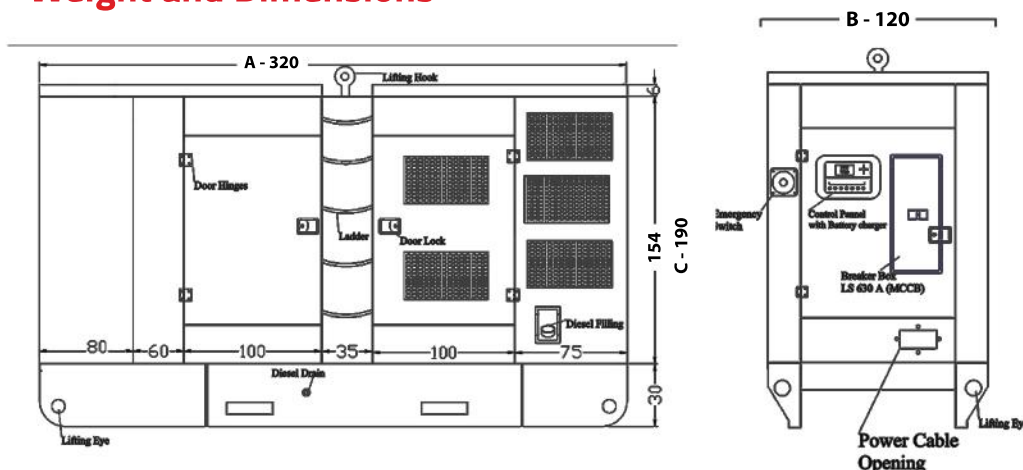


GES P180 KVA

GENSET DATASHEET



Weight and Dimensions



GES P180 KVA		
	Close Type	Open Type
A - Length	320 cm	270 cm
B - Width	120 cm	90 cm
C - Height	190 cm	150 cm
Weight	2300 kg	1813 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

VOLTAGE	FREQUENCY	PRIME RATING	STAND-BY RATING
380/220, 400/230 415/240	50 Hz	180 kVA 144 kW	200 kVA 160 kW
380/220	60 Hz	180 kVA 144 kW	200 kVA 160 kW
480/277	60 Hz	197 kVA 158 kW	219 kVA 175 kW

* Rated Voltage : Line to Line / Line to Neutral : For other voltages please consult factory.

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	Perkins 1106A - 70TAG3
NUMBER OF CYLINDERS	6 vertical in-line
BORE AND STROKE	105 x 135mm 4.13 x 5.31 in
DISPLACEMENT	7.01 Liters 428 in³
ASPIRATION	Turbocharged
CYCLE	4 Stroke
COMBUTION SYSTEM	Direct Injection
COMPRESSION RATIO	16:1
ROTATION	Anti Clockwise, viewed on flywheel
TOTAL LUBRICATION CAPACITY	16.5 Liters 4.36 gal
COOLING SYSTEM	Water Cooled
TOTAL COOLANT CAPACITY	21 Liters 5.5 gal
GOVERNOR	Mechanical

ALTERNATOR DETAILS

MAKE & MODEL	Leroy Somer TAL 044 L
FREQUENCY / P	50/60 Hz / 4 Pole
INGESS PROTECTION	IP 23
INSULATION CLASS	H
TERMINALS	6 (12*)
EXCITATION	Shunt
WINDING PITCH	2/3
AVR MODEL	R120
OVERSPEED	2250 RPM
VOLT REG	± 1%
THD	<5%
NO OF BEARINGS	1

* Optional

GENSET DETAILS

CONTROLLER	DSE 4510 MK II
BASE FRAME	Heavy-duty fabricated steel
ENGINE SPEED	1500 rpm - 1800 rpm (on order)
CURCUIT BREAKER	3 Pole MCCB LSIS Korea - 250 A
FUEL TANK CAPACITY	270 L
AIR INLET	Mounted Air Filter
FUEL SYSTEM	Rotary Type Pump
FUEL FILTER	Cartridge
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.	12 V Starter, 65 A Alternator Oil pressure and coolant temp. switches 12 V Shut-off solenoid energised to run Glow plug cold start aid and heater
FLYWHEEL / HOUSING COUPLING	Directly coupled SAE 3- 11½

EXHAUST SYSTEM @ 1500 RPM

MAX. BACK PR Kpa	6.0	
EXHAUST GAS FLOW m3/min (cfm)	Prime	Standby
	31.55 (1114.17)	33.85 (1195.4)
EXHAUST GAS TEMP. C(F)	491 (915.8)	491 (915.8)

FUEL CONSUMPTION (Approximately)

Hz	Load, %	50%	75%	100%	110%
50	Fuel, Liter / H	20.1	31.8	41.6	44.6

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

	S	O
GENERATOR SET Main Component mounted on the skid base (Engine, Alternator, MCCB, Control Panel and Lead Acid Battery)		
ENGINE Engine stop Method: Energized in run mode (Electric Stop Solenoid is mounted to the fuel lever)		
Muffler Industrial (Open Type) Residential (Soundproof Type) Residential (Open Type)		
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 (DSE 7320, 6120) 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		
FUEL TANK BS Type 270 L		
CONTROL SYSTEM Synchronizing Panel Self-Standing ATS Panel		

Scan For the E-version

