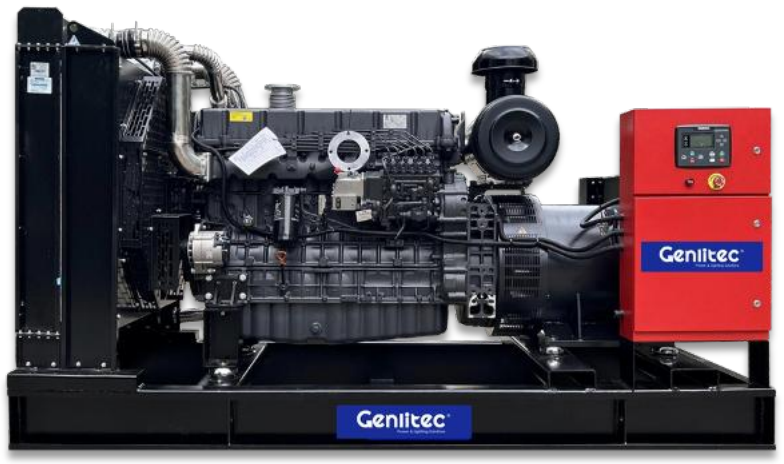
GSC625S6 | GSC625D6

Powered by SDEC

Genlitec® Power & Lighting Solutions





■ Generator Specification

Service	PRP(1)	ESP(2)
Power (KVA)	625	688
Power (KW)	500	550
Rated speed	1800RPM	
Standard voltage	127/220V	
Power factor	0.8	
Phase	3	

ISO CE

GENLITEC Power gensets are compliant with ISO 9001 and CE standard, which include the following directives:

- 2006/42/EC Machinery directive
- 2014/30/EU Electromagnetic compatibility directive
- EN 12100:2010; EN ISO 8528-13:2016; EN 60204-1:2018; EN 61000-6-2:2019; EN 61000-6-4:2019
- **GSC625S6 (Silent Type)**
- **GSC625D6 (Open Type)**

(1) PRP (Prime Power)

According to ISO 8528-1, prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during at 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.

(2) ESP (Standby Power)

According to ISO 8528-1. It is defined as the maximum power available, under the agreed operating conditions, for which the generating set can deliver for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures being carried out as prescribed by the manufactures. No overload capability is available.

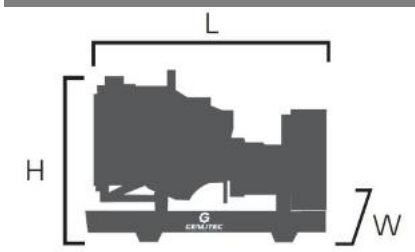
Voltage (V)	ESP		PRP		Currentf
	KVA	KW	KVA	KW	Amps
254/440	688	550	625	500	820.1
127/220	688	550	625	500	1640.2
120/208	688	550	625	500	1734.9

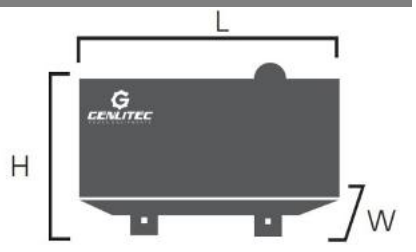
Performance Data	
Model	GSC625S6 | GSC625D6
Engine brand	**SDEC**
Engine model	6KTAA25-G310
Speed control type	Electronic
Alternator brand	**GENLITEC**
Alternator model	S354G450
Control system	**SMARTGEN** HGM6120N
Starter motor voltage	24V
Frequency	60Hz
Fuel Consumption (L/H) — 100% Prime Load	137.5
Fuel Consumption (L/H) — 75% Prime Load	107.3
Fuel Consumption (L/H) — 50% Prime Load	77.1
Fuel Consumption (L/H) — 25% Prime Load	44.0
Fuel Tank (L)	940

Standard Reference Conditions

Note: Standard reference condition 25℃ (77℉) air inlet temp. 100m (328ft) A.S.L 30% relative humidity. Fuel consumption date with diesel fuel with specific gravity of 0.85 and conforming to BS 2869: 1998 Class A2

Dimension & Weight





Dimension	Open type	Silent type
Length (L)	3715mm	4910mm
Width (W)	1455mm	2000mm
Height (H)	2285mm	2550mm
Net Weight	5310kg	6355kg

Note: This parameter allows for some acceptable deviations.

GENLITEC POWER has the right to modify any feature without prior notice, Weights and dimensions based on standard products. Illustrations may include optional equipment. Technical data described in this document correspond to the available information at the moment of printing. The illustrations and images are indicative and may not coincide in their entirety with the product.

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■ Engine Specification



MODEL: SDEC 6KTAA25-G310	
Cylinder number	6
Aspiration system	Turbo & intercooled
Cooling method	Water cooled
Governor type	Electronic
Bore x Stroke (mm)	170 x185
Compression ratio	16:1
Rated speed (RPM)	1800
Displacement (L)	25.2
Rated power (KW)	520
Standby power (KW)	572
Fuel system	Direct injection
Coolant capacity (L)	55
Oil capacity (L)	70
Max. water temperature	104℃
Starter motor capacity	DC 24V

■ Alternator Specification



MODEL: GENLITEC S354G450	
Number of phase	3
Rated power (KW/KVA)	536/670
Frequency (Hz)	60
Power factor (Cos Phi)	0.8
Poles	4
Temp. rise	125K
Terminals	6 (12-lead for option)
Insulation type	H class
Ambient temp.	40℃
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating	Vacuum impregnation
Voltage regulator	A.V.R
Coupling	Flexible disc

Standard Supply Scope

- Industrial exhaust silencer
- Maintenance free battery
- Water cooling radiator
- A.V.R
- Flexible pipes
- Battery wires
- Wiring diagram
- Build-in based fuel tank
- Float Battery charger
- Manual books
- Tool kits
- Emergency stop button
- Base frame
- Digital control panel
- Main circuit breaker

■ Optional Supply Scope

Engine	Alternator	Generator Sets	Control Panel
○ Water jacket pre-heater	○ Anti-condensation heater	○ Extended fuel tank	○ Remote control system
○ Lubrication oil pre-heater	○ AREP & PMG	○ **C-Type** Soundproof canopy	○ ATS panel
○ Battery isolator	○ **STAMFORD** alternator	○ **D-Type** Soundproof canopy	○ Synchronizing System
	○ **LEROY SOMER** alternator		

■ Warranty Period

SDEC diesel engine: Factory warranty, 2 months or 1000 working hours.
STAMFORD/LEROY SOMER alternator: Global warranty, 12 months or 1000 working hours.
GENLITEC alternator: Factory warranty, 12 months or 1000 working hours.

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■ Control Panel

Configuration
● Emergency stop button
● Protection MCB (Main circuit breaker)
● Float battery charger
● ATS connection
● AMF digital control module
● Fuel level meter
● Controller power switch
● Alarm buzzer



Features
● Chinese, English, Spanish, Turkish, Russian & French
● Three phase generator monitoring
● Automatic or manual start/stop of the gensets
● Push buttons for simple control & operation
● Generator measurements (50Hz/60Hz)
● Precision collect & display parameters about ENGINE
● Comprehensive shutdown or warning on fault condition
● Three phase generator protections
- Over / under voltage
- Over / under frequency
- Current / voltage asymmetry
- Over current / overload
● Three phase AMF function
- Over / under voltage
- Loss of phase detection function
● Emergency start function
● IP55 waterproof with rubber-ring gasket

Control Module Model: SMARTGEN HGM6120N	
Display	LCD (132 x 64)
Operation panel	Silicon rubber
Digital input	5
Relay output	6
Analogue input	3
AMF	Yes
AC System	1P2W / 2P3W / 3P3W / 3P4W
Alternator voltage	15-360V (ph-N)
Alternator frequency	50/60Hz
KW/Amp Detecting & Display	Yes
Monitor interface	USB
Programmable interface	USB
DC supply	DC 8-35V
Operating temp.	-25 ~ +70℃

■ Controller Module Options

COMAP	DEIF	DEEPSEA
AMF25	SGC 420	DSE7320
		

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