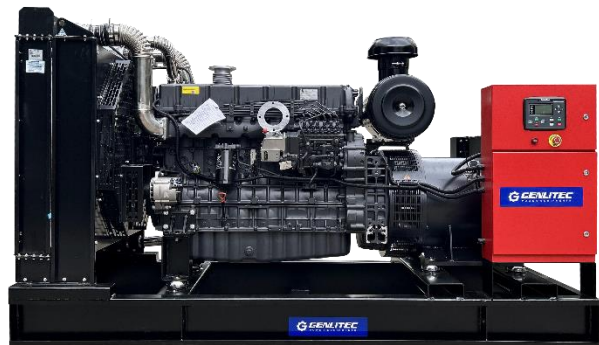


Model: GSC500D6 | GSC500S6

Powered by SDEC SHANGCHAI



Generator Specification

Service	PRP(1)	ESP(2)
Power (KVA)	500	550
Power (KW)	400	440
Rated speed	1800RPM	
Standard voltage	230/132V	
Power factor	0.8	
Phase	3	



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

- 2006/42/EC Machinery safety.
- 2006/95/EC Low voltage
- EN 60204-1: 2006+A1: 2009, EN ISO 12100: 2010, EN ISO 13849-1:2008, EN 12601: 2010

GSC500D6: OPEN TYPE; GSC500S6: SILENT 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 is capable of delivering 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.

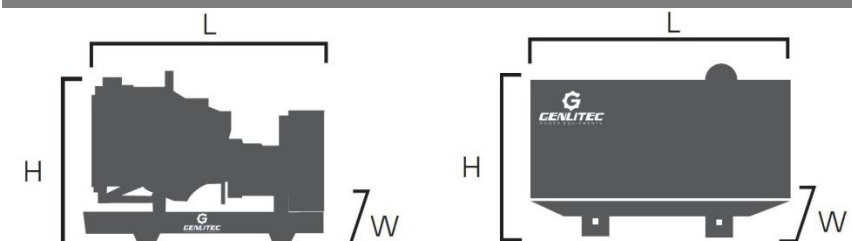
Voltage (V)	PRP		ESP		Current Amps
	KVA	KW	KVA	KW	
480/277	500	400	550	440	606
230/132	500	400	550	440	1255
220/127	500	400	550	440	1312

Performance Data		
Model	GSC500D6 GSC500S6	
Engine brand	SDEC	
Engine model	6ETAA12.8-G310.1	
Speed control type	Electronic	
Alternator brand	GENLITEC	
Alternator model	S314G360	
Control system	SMARTGEN HGM6120N	
Starter motor voltage	24V	
Frequency	60Hz	
Fuel Consumption (KG/H)	100% Prime Load	108.5
	75% Prime Load	79.9
	50% Prime Load	55.3
	25% Prime Load	31.7

Standard Reference Conditions

Note: Standard reference condition 25°C (77°F) 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)	3350mm	4588mm
Width (W)	1200mm	1600mm
Height (H)	1850mm	2500mm
Net Weight	3800kg	4650kg

Note: This parameters allows for some acceptable deviations.

■ Engine Specification



MODEL: SDEC 6ETAA12.8-G310.1

Cylinder number	6
Aspiration system	Turbo charged
Cooling method	Water cooled
Governor type	Electric
Bore x Stroke (mm)	130x161
Compression ratio	16:1
Rated speed (RPM)	1800
Displacement (L)	12.82
Rated power (KW)	450
Standby power (KW)	495
Oil consumption (g/kw.h)	≤4
Coolant capacity (L)	23.2
Oil capacity (L)	36
Fuel system	P type
Starter motor capacity	DC 24V

■ Alternator Specification



MODEL: GENLITEC S314G360

Number of phase	3
Rated power (KW)	432
Frequency (Hz)	60
Power factor (Cos Phi)	0.8
Poles	4
Temp. rise	125K
Terminals	6/12
Insulation type	H class
Ambient temp.	40°C
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
<ul style="list-style-type: none"> Water jacket pre-heater Lubrication oil pre-heater Battery isolator 	<ul style="list-style-type: none"> Anti-condensation heater PMG STAMFORD alternator LEROY SOMER alternator 	<ul style="list-style-type: none"> Extended fuel tank 12h/24h/72h C-Type Soundproof canopy D-Type Soundproof canopy Trailer mounted 	<ul style="list-style-type: none"> Remote control system Build-in/External ATS Synchronizing System Power output sockets

■ 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 <ul style="list-style-type: none">- Over / under voltage- Over / under frequency- Current / voltage asymmetry- Over current / overload
● Three phase AMF function <ul style="list-style-type: none">- Over / under voltage- Loss of phase detection function
● Emergency start function
● IP55 waterproof with rubber-ring gasket

Control Module Model: SMARTGEN HGM6120	
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
		