

■ Model: GSC450D5 | GSC450S5

Powered by SDEC SHANGCHAI



■ Generator Specification

Service	PRP(1)	ESP(2)
Power (KVA)	450	500
Power (KW)	360	400
Rated speed	1500RPM	
Standard voltage	380/220V	
Power factor	0.8	
Phase	3	

Performance Data		
Model	GSC450D5 GSC450S5	
Engine brand	SDEC	
Engine model	SC25G610D2	
Speed control type	Electronic	
Alternator brand	GENLITEC	
Alternator model	S314G360	
Control system	DEIF SGC 420	
Starter motor voltage	24V	
Frequency	50Hz	
Fuel Consumption (KG/H)	100% Prime Load	100.4
	75% Prime Load	75.8
	50% Prime Load	53.6
	25% Prime Load	30.9



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
- **GSC450D5: OPEN TYPE; GSC450S5: 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)

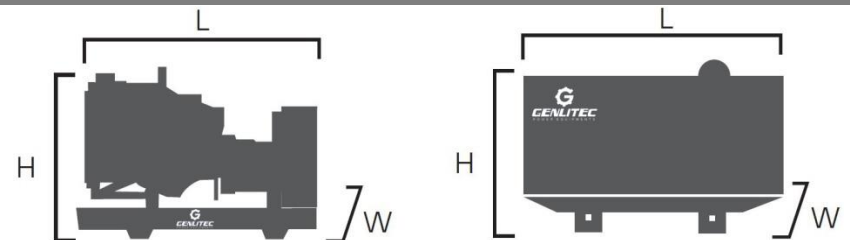
According to ISO 8528-1. It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Voltage (V)	ESP		PRP		Current Amps
	KVA	KW	KVA	KW	
415/240	500	400	450	360	626
400/230	500	400	450	360	650
380/220	500	400	450	360	684

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)	3250mm	4380mm
Width (W)	1200mm	1500mm
Height (H)	1850mm	2250mm
Net Weight	3600kg	4500kg

Note: This parameters allows for some acceptable deviations.

■ Engine Specification



MODEL: SDEC 6ETAA12.8-G31

Cylinder number	12
Aspiration system	Turbo, air-air cooled
Cooling method	Water cooled
Governor type	Electronic
Bore x Stroke (mm)	135x150
Compression ratio	16:1
Rated speed (RPM)	1500
Displacement (L)	25.8
Rated power (KW)	405
Standby power (KW)	445
Oil consumption (g/kw.h)	≤4
Coolant capacity (L)	48
Oil capacity (L)	65
Fuel system	P type
Starter motor capacity	DC 24V- 35A

■ Alternator Specification



MODEL: GENLITEC S314G360

Number of phase	3
Rated power (KW/KVA)	360/450
Frequency (Hz)	50
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
<input type="checkbox"/> Water jacket pre-heater	<input type="checkbox"/> Anti-condensation heater	<input type="checkbox"/> Extended fuel tank 12h/24h/72h	<input type="checkbox"/> Remote control system
<input type="checkbox"/> Lubrication oil pre-heater	<input type="checkbox"/> PMG	<input type="checkbox"/> C-Type Soundproof canopy	<input type="checkbox"/> Build-in/External ATS
<input type="checkbox"/> Battery isolator	<input type="checkbox"/> STAMFORD alternator	<input type="checkbox"/> D-Type Soundproof canopy	<input type="checkbox"/> Synchronizing System
	<input type="checkbox"/> LEROY SOMER alternator	<input type="checkbox"/> Trailer mounted	<input type="checkbox"/> 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
 - 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: DEIF SGC 420

Display	LED
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°C

■ Controller Module Options

COMAP	DEEPSEA	DEEPSEA
AMF25	DSE6020	DSE7320

Local Distributor / Partner

