

Model: GSC280D6 | GSC280S6

Powered by SHANGCHAI



Generator Specification

Service	PRP(1)	ESP(2)
Power (KVA)	280	310
Power (KW)	225	248
Rated speed	1800RPM	
Standard voltage	277/480V	
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

GSC280D6: OPEN TYPE; GSC280S6: 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.

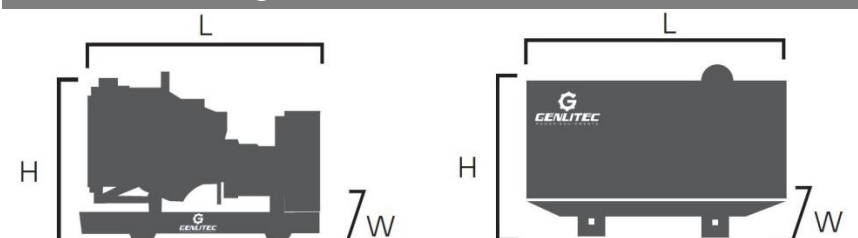
Voltage (V)	PRP		ESP		Current Amps
	KVA	KW	KVA	KW	
480/277	280	225	310	248	337
208/120	280	225	310	248	777
220/127	280	225	310	248	735

Performance Data		
Model	GSC280D6 GSC280S6	
Engine brand	SHANGCHAI SDEC	
Engine model	6DTAA8.9-G23	
Speed control type	Electronic	
Alternator brand	GENLITEC	
Alternator model	S274G200	
Control system	SMARTGEN HGM6120N	
Starter motor voltage	24V	
Frequency	50Hz	
Fuel Consumption (L/H)	100% Prime Load	55.1
	75% Prime Load	40.7
	50% Prime Load	27.7
	25% Prime Load	15.9

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)	3100mm	4200mm
Width (W)	1000mm	1420mm
Height (H)	1850mm	2100mm
Net Weight	2800kg	3800kg

Note: This parameters allows for some acceptable deviations.

■ Engine Specification



MODEL: SHANGCHAI SDEC 6DTAA8.9-G23

Cylinder number	4
Aspiration system	Turbocharged
Cooling method	Water cooled
Governor type	Electronic
Bore x Stroke (mm)	114 x 144
Compression ratio	18:1
Rated speed (RPM)	1800
Displacement (L)	8.8
Rated power (KW)	230
Standby power (KW)	253
Oil consumption (g/kw.h)	≤4
Fuel system	-
Oil capacity (L)	25
Coolant capacity (L)	30.5
Starter motor capacity	DC 24V

■ Alternator Specification



MODEL: GENLITEC S274G200

Number of phase	3
Rated power (KW)	240
Frequency (Hz)	60
Power factor (Cos Phi)	0.8
Poles	4
Temp. rise	125K
Terminals	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 | ● Flexible pipes | ● Float Battery charger | ● Base frame |
| ● Maintenance free battery | ● Battery wires | ● Manual books | ● Digital control panel |
| ● Water cooling radiator | ● Wiring diagram | ● Tool kits | ● Main circuit breaker |
| ● A.V.R | ● Build-in based fuel tank | ● Emergency stop button | |

■ Optional Supply Scope

Engine	Alternator	Generator Sets	Control Panel
○ Water jacket pre-heater	○ Anti-condensation heater	○ Extended fuel tank 12h/24h/72h	○ Remote control system
○ Lubrication oil pre-heater	○ PMG	○ Soundproof canopy	○ Build-in/External ATS
○ Battery isolator	○ STAMFORD alternator	○ Trailer mounted	○ 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 language
- 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°C

Controller Module Options

COMAP

AMF25



COMAP

DSE6020



DEESEA

DSE7320

