GSC20S6-I | GSC20D6-I

Powered by SDEC

Genlitec® Power & Lighting Solutions





■ Generator Specification

Service	PRP(1)	ESP(2)
Power (KVA)	20	22
Power (KW)	16	17.6
Rated speed	1800RPM	
Standard voltage	127/220V	
Power factor	0.8	
Phase	3	

Performance Data		
Model		GSC20S6-I | GSC20D6-I
Engine brand		**SDEC**
Engine model		4Z2.3-G12
Speed control type		Mechanical
Alternator brand		**GENLITEC**
Alternator model		S164G12.8
Control system		**SMARTGEN** HGM6120N
Starter motor voltage		12V
Frequency		60Hz
Fuel Consumption (L/H)	100% Prime Load	6.1
	75% Prime Load	4.8
	50% Prime Load	3.4
	25% Prime Load	2.3
	Fuel Tank (L)	50

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
- **GSC20S6-I (Silent Type)**
- **GSC20D6-I (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)

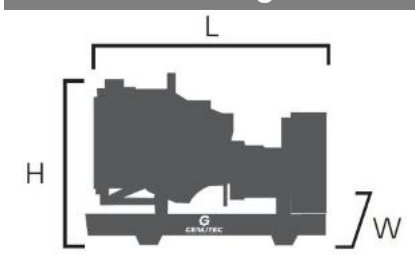
According to ISO 8528-1. It is defined as the maximum power available, under the agreed operating conditions, for which the generating set can deliver for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures being carried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

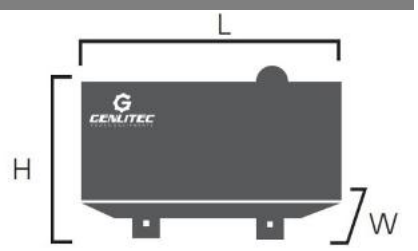
Voltage (V)	ESP		PRP		Current
	KVA	KW	KVA	KW	Amps
254/440	22	17.6	20	16	26.2
127/220	22	17.6	20	16	52.5
120/208	22	17.6	20	16	55.5

Standard Reference Conditions

Note: Standard reference condition 25℃ (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)	1490mm	2000mm
Width (W)	650mm	900mm
Height (H)	1150mm	1250mm
Net Weight	530kg	786kg

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 4Z2.3-G12	
Cylinder number	4
Aspiration system	Naturally Aspirated
Cooling method	Water cooled
Governor type	Mechanical
Bore x Stroke (mm)	80 x100
Compression ratio	18:1
Rated speed (RPM)	1800
Displacement (L)	2.3
Rated power (KW)	21
Standby power (KW)	23
Fuel system	Direct injection
Coolant capacity (L)	4 (Engine Only)
Oil capacity (L)	5.5
Max. water temperature	104℃
Starter motor capacity	DC 12V

■ Alternator Specification



MODEL: GENLITEC S164G12.8	
Number of phase	3
Rated power (KW/KVA)	16/20
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
O Water jacket pre-heater	O Anti-condensation heater	O Extended fuel tank 12h/24h/72h	O Remote control system
O Lubrication oil pre-heater	O AREP or PMG	O **C-Type** Soundproof canopy	O Build-in/External ATS
O Battery isolator	O **STAMFORD** alternator	O **D-Type** Soundproof canopy	O Power output sockets
	O **LEROY SOMER** alternator	O Trailer mounted	

■ 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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