GPK16S5 | GPK16D5

Powered by Kubota

Genlitec®
Power & Lighting Solutions

Generator Specification

Service	PRP(1)	ESP(2)
Power (KVA)	16	17.6
Power (KW)	13	14
Rated speed	1500RPM	
Standard voltage	400/230V	
Power factor	0.8	
Phase	Three	

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
- **GPK16S5 (Silent Type)**
- **GPK16D5 (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.

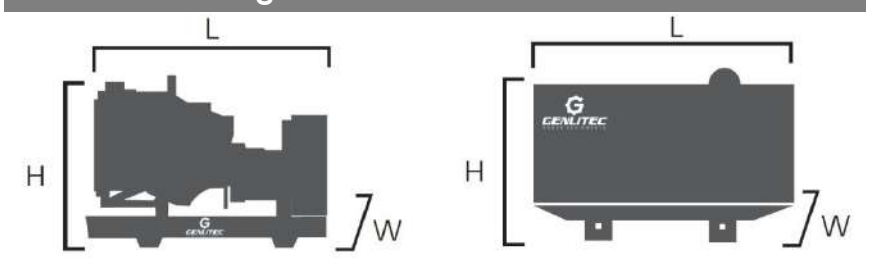
Voltage (V)	ESP		PRP		Current
	KVA	KW	KVA	KW	Amps
415/240	17.6	14	16	13	22.3
400/230	17.6	14	16	13	23.1
380/220	17.6	14	16	13	24.3

Performance Data		
Model		**GPK16S5 | GPK16D5**
Engine brand		**KUBOTA**
Engine model		D1803-M-DI-BG
Speed control type		Mechanical
Alternator brand		**GENLITEC**
Alternator model		S164G12.8
Control system		**SMARTGEN** HGM4020N
Starter motor voltage		12V
Frequency		50Hz
Fuel Consumption (L/H)	100% Prime Load	3.95
	75% Prime Load	3.03
	50% Prime Load	2.10
	25% Prime Load	/
	Fuel Tank (L)	50

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)	1500mm	2000mm
Width (W)	720mm	900mm
Height (H)	950mm	1150mm
Net Weight	550kg	700kg

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: KUBOTA D1803-M-DI-BG	
Cylinder number	3
Aspiration system	Natural
Cooling method	Water cooled
Combustion system	Direct injection
Bore x Stroke (mm)	87x102.4
Compression ratio	20.2:1
Rated speed (RPM)	1500
Displacement (L)	1.826
Rated power (KW)	15.5
Standby power (KW)	17.0
Fuel injection pump	Bosch type PFR MD pump
Injection Nozzle	Throttle type
Oil capacity (L)	7.0
Charger Alternator capacity	12V
Starter motor capacity	DC 12V

Alternator Specification

MODEL: GENLITEC S164G12.8	
Number of phase	3
Rated power (KW/KVA)	12.8/16
Frequency (Hz)	50
Power factor (Cos Phi)	0.8
Poles	4
Temp. rise	125K
Terminals	6/12
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 12h/24h/72h	○ Remote control system
○ Lubrication oil pre-heater	○ PMG	○ Trailer mounted	○ Build-in/External ATS
○ Battery isolator	○ **STAMFORD** alternator		○ Synchronizing System
	○ **LEROY SOMER** alternator		○ Power output sockets

Warranty Period

KUBOTA diesel engine: Global warranty, 12 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.
DEEPSEA control module: 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
● Single/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
● Single/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 HGM4020N	
Display	LCD (132 x 64mm)
Operation panel	Silicon rubber
Digital input	4
Relay output	6
Analogue input	4
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

SMARTGEN	DEIF	DEEPSEA
HGM6120N	SGC 420	DSE7320

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Power & Lighting Solutions
GENLITEC POWER TECHNOLOGY CO., LTD.
GENLITEC (FUZHOU) POWER EQUIPMET CO., LTD.
marketing@genlitec.com | www.genlitecpower.com

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