

# SCG20S3

## Silent Type

### Powered By Perkins



## CONFIGURATION:

**Standard:** Engine, alternator, cooling system, Base frame, shock absorber, air system, control box, plastic fan blades (when the engine and water tank do not bring).

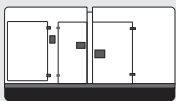
**Optional:** Water jacket heater, oil preheater, anti-condensation heater, fuel water separator, fuel heater, fuel level sensor, water level sensor, automatic fueling system (only supporting base frame including fuel tank).

**Accessories:** Silencer, bellow, exhaust silencing system accessories (with the matching engine), regular battery, data of generators, random tool (with the matching engine).

## FETURES

- >> Powered by Perkins engine with reliable power output
- >> Easy maintenance and operation
- >> Compact design
- >> With forklift pockets and lift point for transportation
- >> Suitable for all weather conditions

## Basic Information



Engine		Perkins 403D-22G
Alternator		Stamford PI144D
Controller		Smartgen HGM6120
Prime Power	KVA/KW	20/16
Standby Power	KVA/KW	22/17.6
Rated Speed	RPM	1500
Rated Frequency	HZ	50
Rated Voltage	V	415/240
Phase		3
Power Factor		0.8
Governor method		Mechanical
Rated Current	A	27.8
Fuel Consumption @ 100% Load	L/H	5.5
Dimmension	LxWxH mm	2260*948*1563
Dry Weight	Kg	1130
Fuel Tank Size	L	210
Noise Level @ 7 meters	dBA	72

Note:

- (1) **Prime Power:** Prime power is available for an unlimited number of annual operating hours in variable load applications; in accordance with ISO8528-1. A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation, in accordance with ISO3046-1.
- (2) **Standby Power:** Standby power is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.
- (3) The following voltages can be customized on requirement: single phase - 220V/230V/240V; three phase - 380/220V, 400/230V, 415/240V, 440/254V.
- (4) We reserve the right to modify the specifications without prior notice. All ratings are for guidance only, please refer to the final specific generator information from us.

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#### Engine Specification

Model	403D-22G
Manufacturer	Perkins
Number of cylinders	4
Cylinder arrangement	Vertical In-line
Cycle	Four stroke
Induction system	Naturally aspirated
Compression ratio	23.3:1
Bore x Stroke	84x100 mm
Displacement L	2.216
Estimated total weight (dry) kg	242
Rated power at 1500rpm KW/HP	18/25
Lubrication oil capacity L	10.6
Coolant capacity L	7
Governor method	Mechanical
Starting system	Electric
Type of injection model	Indirect injection
110% Fuel Consumption (prime) L/H	6.1
100% Fuel Consumption (prime) L/H	5.3
75% Fuel Consumption (prime) L/H	4
50% Fuel Consumption (prime) L/H	2.9
Silence Type	Industrial
Lube Oil brand	15W40-CH4 Upgrade
Cooling System	Water cooled

#### Alternator Specification

Model	PI144D
Frequency and Speed	50Hz/1500rpm
Manufacturer	Stamford
Prime capacity(kVA)	20
Exciter type	Brushless
Insulation	Class H
Protection	IP23
Rated power factor	0.8
Stator winding	Double layer concentric
Winding pitch	two thirds
Winding leads	12
Maximum over speed	2250Rev/min
THF (Wave Form IEC)	<2%
TIF (Wave Form NEMA)	<50
Voltage regulation	1.00%