



GENERATOR KING

GKSD-33S

SDEC 30KVA

30kVA Prime / 33kVA Standby / Single Phase

Comprehensive Specification Sheet
Electrical and Mechanical Data



1ph

GKSD-33S

SDEC 30KVA

30kVA Prime / 33kVA Standby / Single Phase

FEATURES & BENEFITS

- 33kVA standby power at 230/400v @ 50Hz 1500rpm
- High-quality and reliable four-cylinder 3.2l SDEC diesel engine
- Ideal for small business and residential applications
- Sound attenuated canopy which can stand outside with lockable doors
- Automatic changeover (ATS), maintenance free batteries and trickle charger included
- H-specification insulation, brushless alternator with AVR provides stable output
- High-temperature and oil pressure sensor to protect against engine damage
- Easy to use digital controller with auto/manual start options
- All sets undergo a comprehensive testing/pre-delivery inspection prior to delivery
- Peace of mind of earlier of one year/1000 hour warranty



CANOPY

- Ventilation parts are designed with modular principles
- Weather resistant and lined with sound reducing foam
- All metal canopy parts are painted with powder paint
- Panel window
- Lockable doors on each side
- Easy maintenance and operation
- Easy lifting and moving
- Thermally insulated engine exhaust system
- Exterior emergency stop push button
- Sound attenuated

CHASSIS

- The complete generator set is mounted as a whole on a heavy duty fabricated, steel base frame
- Steel chassis and anti-vibration pads
- Base frame design incorporates an integral fuel tank
- The generator can be lifted or carefully pushed/pulled by the base frame
- Dial type fuel gauge on the fuel tank

Overview

Standby power	30kVA
Prime power	33kVA
Phase	Single
Dry weight	790kg
Length	2100mm
Width	950mm
Height	1150mm
Fuel tank capacity	180l

CONTROL SYSTEM

Control supervision and protection panel is mounted on the genset base frame. The control panel is equipped as follows:

AUTO MAINS FAILURE CONTROL PANEL

- Controller with Smartgen automatic transfer switch
- Smartgen HGM4020N electronic controller
- Emergency stop push button
- Static battery charger
- Four-pole electrically and mechanically interlocked ATS

GENERATING SET CONTROL MODULE SMARTGEN HGM4020N FEATURES

- This module is used to monitor a mains supply and automatically start a standby generating set
- Shutdown alarms
- STOP/RESET-MANUAL-AUTO-TEST-START

METERING VIA LCD DISPLAY

- Mains volts (L-L/L-N)
- Generator amps (L1, L2, L3)
- Generator frequency; generator (cos)
- Engine hours run; plant battery (volts)
- Engine oil pressure (psi and bar)

- Engine speed (rpm)
- Engine temperature (degrees C)

AUTOMATIC SHUTDOWN AND FAULT CONDITIONS

- Under/over speed; fail to start
- High engine temperature; fail to stop
- Low oil pressure; charge fail
- Under/over generator volts
- Under/over generator frequency
- Emergency stop/start failure
- Under/over mains voltage
- Charge failure

GKSD-33 SDEC 30KVA

30kVA Prime / 33kVA Standby / Single Phase

TECHNICAL SPECIFICATIONS

*All ratings are quoted at maximum ratings at sea level and derating will be applicable for altitude and power factor.

Engine

Engine make	SDEC
Engine model	4ZT3.2-G21
Displacement	3.2L
Cylinder bore/Stroke	98mm x 105mm
Fuel system	In-line fuel injection pump
Governor	Electronic Control Unit Pump
Cylinders	Four (4) in line cylinders water cooled
Engine output power (1500rpm)	39kW
Turbocharged/normally aspirated	Turbo Charged
Cycle	Four stroke
Combustion system	Direct injection
Compression ratio	18:1
Fuel tank capacity	180L
Fuel consumption 100%	10.1 l/h
Fuel consumption 75%	7.6 l/h
Fuel consumption 50%	5.3 l/h
Fuel consumption 25%	3.3 l/h
Oil type	15W-40
Engine oil capacity	6-7L
Cooling method	Water-cooled radiator/fan
Coolant capacity	7.9L
Starter	12v DC charge alternator
Engine speed	1500rpm
Filters	Replaceable fuel filter/oil filter/dry element air filter
Battery	Maintenance-free battery including rack and cables
Silencer	Exhaust silencer

Alternator

Alternator make	StromerPower
Standby power output	33kVA
Prime power output	30kVA
Insulation class	Class-H with circuit breaker protection
Type	Brushless
Phase and connection	Single phase/two pole
AVR	Included
AVR model	SX460
Voltage regulation	± 1%
Voltage	230/400v
Rated frequency	50Hz
Voltage regulate change	≤ ±10% UN
Phase change rate	± 1%
Power factor	0.8φ
Protection class	IP23 standard/screen protected/drip-proof
Stator	2/3 pitch
Rotor	Single bearing
Excitation	Self-exciting
Regulation	Self-regulating

General

Structure type	Silent weather resistant enclosure
Dimensions (mm) Length x Width x Height	2100x950x1150
Dry weight	790kg
ATS unit included	Included
Four-way protection system included	Included