

GKSD-1100

SDEC 1000KVA

1000kVA Prime / 1100kVA Standby

Comprehensive Specification Sheet
Electrical and Mechanical Data



3ph

GKSD-1100

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1000kVA Prime / 1100kVA Standby / Three Phase

FEATURES & BENEFITS

- 1100kVA standby power at 230/400v @ 50Hz 1500rpm
- High-quality and reliable six-cylinder 35.1l turbocharged SDEC diesel engine
- Ideal for business and industrial applications
- Silent 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

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 Deepsea automatic transfer switch
- Deepsea 7320 electronic controller
- Emergency stop push button
- Static battery charger
- Four-pole electrically and mechanically interlocked ATS

GENERATING SET CONTROL MODULE DEEPSEA 7320 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)

| Overview | |
|--------------------|---------|
| Standby power | 1100kVA |
| Prime power | 1000kVA |
| Phase | Three |
| Dry weight | 8800kg |
| Length | 5000mm |
| Width | 2200mm |
| Height | 2670mm |
| Fuel tank capacity | 1900l |

- 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

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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 | 6WTAA35-G31 |
| Displacement | 35.1l |
| Cylinder bore/Stroke | 186mm x 215mm |
| Fuel system | In-line fuel injection pump |
| Governor | Electronic Control Unit Pump |
| Cylinders | Six (6) in line cylinders water cooled |
| Engine output power (1500rpm) | 882kW |
| Turbocharged/normally aspirated | Turbocharged and intercooled |
| Cycle | Four stroke |
| Combustion system | Direct injection |
| Compression ratio | 15:1 |
| Fuel tank capacity | 1900l |
| Fuel consumption 100% | 188.1 l/h |
| Fuel consumption 75% | 136.6 l/h |
| Fuel consumption 50% | 92.9 l/h |
| Fuel consumption 25% | 55.2 l/h |
| Oil type | 15W-40 |
| Engine oil capacity | 100l |
| Cooling method | Water-cooled radiator/fan |
| Coolant capacity | 44l |
| Starter | 24v 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 | 1100kVA |
| Prime power output | 1000kVA |
| Insulation class | Class-H with circuit breaker protection |
| Type | Brushless |
| Phase and connection | Three phase/four wire |
| AVR | Included |
| AVR model | MX341B |
| 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 | 5000x2200x2670 |
| Dry weight | 8800kg |
| ATS unit included | Included |
| Four-way protection system included | Included |