GKSD-138 SDEC 125KVA

125kVA Prime / 138kVA Standby

Comprehensive Specification Sheet Electrical and Mechanical Data





GKSD-138 SDEC 125KVA

125kVA Prime / 138kVA Standby / Three Phase

FEATURES & BENEFITS

- 138kVA standby power at 230/400v @ 50Hz 1500rpm
- High-quality and reliable four-cylinder 4.3l turbocharged and intercooled SDEC diesel engine
- · Ideal for home and business 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

Overview	
Standby power	125kVA
Prime power	138kVA
Phase	Three
Dry weight	1600kg
Length	2500mm
Width	1110mm
Height	1470mm
Fuel tank capacity	330l

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 HGM6120N electronic controller
- · Emergency stop push button
- Static battery charger
- Four-pole electrically and mechanically interlocked ATS

GENERATING SET CONTROL MODULE SMARTGEN HGM6120N 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

SDEC 125KVA

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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	4HTAA4.3-G22
Displacement	4.3l
Cylinder bore/Stroke	105mm x 124mm
Fuel system	In-line fuel injection pump
Governor	Electronic
Cylinders	Four cylinders water cooled
Engine output power (1500rpm)	120kW
Turbocharged/normally aspirated	Turbocharged and intercooled
Cycle	Four stroke
Combustion system	Direct injection
Compression ratio	16.0:1
Fuel tank capacity	330l
Fuel consumption 100%	28.6 l/h
Fuel consumption 75%	21.4 l/h
Fuel consumption 50%	14.4 l/h
Fuel consumption 25%	7.3 l/h
Oil type	15W-40
Engine oil capacity	13l
Cooling method	Water-cooled radiator/fan
Coolant capacity	19l
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	138kVA
Prime power output	125kVA
Insulation class	Class-H with circuit breaker protection
Туре	Brushless
Phase and connection	Three phase/four wire
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 Length x Width x Height	2500mm x 1100mm x 1470mm
Dry weight	1600kg
ATS unit included	Included
Four-way protection system included	Included