# SDEC 200KVA

200kVA Prime / 220kVA Standby

Comprehensive Specification Sheet Electrical and Mechanical Data





### **SDEC 200KVA**

200kVA Prime / 220kVA Standby / Three Phase

#### **FEATURES & BENEFITS**

- 220kVA standby power at 230/400v @ 50Hz 1500rpm
- High-quality and reliable six-cylinder 8.8l 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

220kVA
200kVA
Three
2397kg
3000mm
1130mm
1670mm
400l

#### **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

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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 make	SDEC
Engine model	6DTAA8.9-G21
Displacement	8.81
Cylinder bore/Stroke	114mm x 144mm
Fuel system	In-line fuel injection pump
Governor	Electronic
Cylinders	Six cylinders water cooled
Engine output power (1500rpm)	185kW
Turbocharged/normally aspirated	Turbocharged and intercooled
Cycle	Four stroke
Combustion system	Direct injection
Compression ratio	18.0:1
Fuel tank capacity	400l
Fuel consumption 100%	44,1 l/h
Fuel consumption 75%	32,8 l/h
Fuel consumption 50%	22,8 l/h
Fuel consumption 25%	13,4 l/h
Oil type	15W-40
Engine oil capacity	<b>19</b> l
Cooling method	Water-cooled radiator/fan
Coolant capacity	27.5l
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	220kVA
Prime power output	200kVA
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	3000mm x 1130mm x 1670mm
Dry weight	2397kg
ATS unit included	Included
Four-way protection system included	Included