FAW 23KVA

23kVA Prime / 25kVA Standby

Comprehensive Specification Sheet Electrical and Mechanical Data





FAW 23KVA

23kVA Prime / 25kVA Standby / Three Phase

FEATURES & BENEFITS

- 25kVA standby power at 230/400v @ 50Hz 1500rpm
- High-quality and reliable four-cylinder 2.54l normallyaspirated FAWDE 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	25kVA
Prime power	23kVA
Phase	Three
Dry weight	782kg
Length	2100mm
Width	920mm
Height	1050mm
Fuel tank capacity	2001

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 HGM420N electronic controller
- · Emergency stop push button
- Static battery charger
- Four-pole electrically and mechanically interlocked ATS

GENERATING SET CONTROL MODULE SMARTGEN HGM420N 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

FAW 23KVA

23kVA Prime / 25kVA Standby / Three Phase

TECHNICAL SPECIFICATIONS

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

_	 О.	

ciigiiie		
Engine make	FAW/FAWDE	
Engine model	4DW91-29D	
Displacement	2,54l	
Cylinder bore/Stroke	90mm x 100mm	
Fuel system	In-line fuel injection pump	
Governor	Electrical	
Cylinders	Four cylinders water cooled	
Engine output power (1500rpm)	21kW	
Turbocharged/normally aspirated	Normally aspirated	
Cycle	Four stroke	
Combustion system	Direct injection	
Compression ratio	17:1	
Fuel tank capacity	2001	
Fuel consumption 100%	6.3 l/h	
Fuel consumption 75%	4.7 l/h	
Fuel consumption 50%	3.2 l/h	
Fuel consumption 25%	1.6 l/h	
Oil type	15W40	
Engine oil capacity	81	
Cooling method	Radiator water-cooled	
Coolant capacity	2.65l	
Starter	12v DC starter 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	25kVA	
Prime power output	23kVA	
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	2100mm x 920mm x 1050mm
Dry weight	782kg
ATS unit included	Included
Four-way protection system included	Included

The Generator King (Pty) Ltd | www.genking.co.za | sales@genking.co.za +27 11 312 4673 | 50 Falcon Lane, Lanseria Corporate Estate, Lanseria, 1739

The Generator King (Pty) Ltd reserves the right to change generator information without prior notice. Information is double checked to ensure that it is correct, however The Generator King (Pty) Ltd will not be held responsible for clerical errors. (E&OE)