

FAW 165kVA standby diesel generator



KEY SPECIFICATIONS

STANDBY POWER	165kVA
PRIME POWER	150kVA
PHASE	Three
DRY WEIGHT	1741kg
LENGTH	2950mm
WIDTH	1150mm
HEIGHT	1535mm
FUEL TANK CAPACITY	380l

FEATURES & BENEFITS

- Maximum 165kVA standby power at 230/400v @ 50Hz 1500rpm
- Powerful six cylinder 7.12l turbocharged and water-cooled CA6DF2-19D series FAW diesel engine
- Ideal for small business applications
- Automatic changeover (ATS), maintenance free batteries and trickle charger included

- H-specification Insulation, brushless alternator with AVR provides stable output
- Easy to use digital controller with auto and manual start options
- Silent canopy which can stand outside with lockable doors
- Four-way protection system included
- Peace of mind of earlier of one year/1000 hour warranty

STANDARD GENSET SPECIFICATIONS

ENGINE

FAW diesel engine
Six cylinder water cooled
Electronic fuel pump
24v DC starter and charge alternator
Replaceable fuel filter, oil filter, dry element air filter
Cooling radiator and fan
Exhaust silencer
Maintenance free battery including rack and cables
Jack water heater (optional)

ALTERNATOR

Brushless, single bearing system, four poles
Insulation class H with circuit breaker protection
Standard degree of protection IP21
Self-exciting and self-regulating
AVR SX460 included
Screen protected and drip proof
Stator winding with 2/3 pitch for improved harmonics
Close voltage regulation

CHASSIS

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
Includes diesel levels sensor information to the controller

CANOPY

Ventilation parts are designed with modular principles
Weather resistant and lined with sound reducing foam
All metal canopy parts are painted by 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

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

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

Control with Strömer automatic transfer switch
6120N Smartgen electronic controller
Emergency stop push button
Static battery charger
Three-pole electrically and mechanically interlocked ATS

GENERATING SET CONTROL MODULE 420 SMARTGEN FEATURES

This module is used to monitor a mains supply and automatically start a standby generating set

Shutdown alarms
STOP/RESET-MANUAL-AUTO-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/bar)
Engine speed (rpm)
Engine temperature (°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 pressure
Low diesel level; Low oil pressure

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SPECIFICATIONS TABLE

ENGINE SPECIFICATIONS

Engine make	FAW
Diesel generator model	CA6DF2-19D
Displacement	7.12L
Cylinder bore/stroke	110mm x 125mm
Fuel system	In-line fuel injection pump
Cylinders	6
Cylinder arrangement	Vertical in-line
Engine output power	140kW
Turbocharged or normally aspirated	Turbocharged and intercooled
Cycle	Four stroke
Combustion system	Direct injection
Compression ratio	17:1
Fuel tank capacity	380L
Fuel consumption 100%	32.94 l/h
Fuel consumption 75%	24.74 l/h
Fuel consumption 50%	16.47 l/h
Fuel consumption 25%	8.24 l/h
Oil type	15W40
Oil capacity	23L
Cooling method	Radiator water-cooled
Coolant capacity (including radiator)	23L
Starter	24v DC
Governor system	Electrical
Engine speed	1500rpm

ALTERNATOR SPECIFICATIONS

Alternator brand	Strömer
Standby power output	165kVA
Prime power output	150kVA
Insulation class	H
Type	Brushless
Phase and connection	Three phase, four wire
AVR	Yes
AVR model	SX460
Voltage regulation	± 1%
Voltage	230/400v
Rated frequency	50Hz
Voltage regulate change	≤±10% UN
Phase change rate	± 1%
Power factor	0.8
Protection class	IP21
Stator	2/3 pitch
Rotor	Single bearing

GENERAL SPECIFICATIONS

Structure type	Silent weather resistant enclosure
Dimensions Length x Width x Height	2950mm x 1150mm x 1535mm
Dry weight	1741kg
ATS unit included	Yes