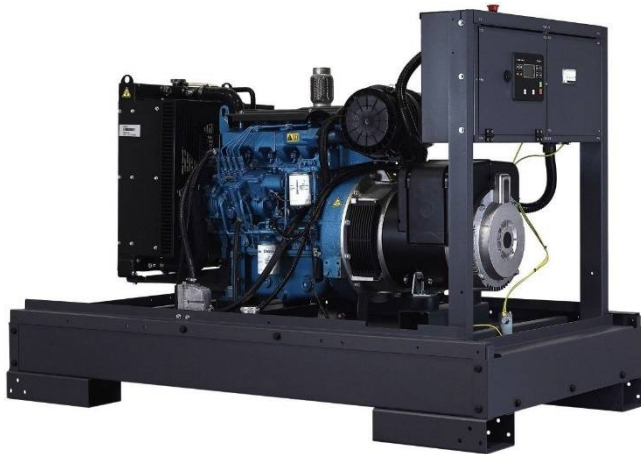


MAIN FEATURES

Highest quality and reliability.	Wide range of standard and optional equipment.
ComAp IntelliLite AMF 25 controller.	Engine heater – ready to load just after start.
Ready to control MAINS – GENERATOR transfer switch.	Drip tray,
Configured for both manual and automatic mode (MRS + AMF).	Anticorrosion coating: frame - Zr, canopy – Zr, Al-Zn.
Wide range of remote communications options.	Brushless alternator.



Pictures for reference only

GENERAL DATA

Standby power ESP [kVA] / [kW]	43,0 / 34,0
Prime power PRP [kVA] / [kW]	39,0 / 32,0
Prime current PRP [A]	57,0
Frequency [Hz]	50
Voltage [V]	400
Exhaust emission	non-emission
Fuel type	Diesel (EN 590)
Fuel consumption - 50% load [l/h]	4,7
- 75% load [l/h]	7,0
- 100% load [l/h]	9,5
- 110% load [l/h]	10,8
Engine control voltage [V]	12
Standard fuel tank capacity [l]	210
Autonomy with 100% load [h]	19,0
Design	S2003T210

Prime Power PRP:

Prime power available in variable load application in accordance with ISO 8528, 10% overload capacity is available for a period of 1 hour within a 12-hour period of operation. Average power consumption should not exceed 70% PRP for each 24h of operation.

Standby power ESP:

Standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload allowed, average power consumption should not exceed 70% ESP. Limited to 500h of operation per year including 25 hours with ESP.

Remarks:

Ratings represent the genset performance capabilities to standard conditions specified in ISO 8528-1.

Norms and directives:

- Machinery directive 2006/42/EC
- Low voltage directive 2014/35/EU
- EMC directive 2014/30/EU
- Noise directive 2000/14/EC
- Emission directive 97/68/EC
- ISO 8528-1/2018, ISO 8528-5/2018
- ISO 8528-13:2016
- IEC 60204-1

Generator version	open	canopy
Model	FD 40 W-ST1	FD 40 W-ST
Weight without fuel [kg]	~720	930
Dimensions L x W x H [mm]	2000 x 1110 x 1310	2000 x 1100 x 1490
Guaranteed noise power Lwa [dBA]		92
Acoustic pressure @7m Lpa [dBA]		62,3 ± 1

STANDARD CONTROLLER

Controller type: ComAp IntelliLite AMF 25

Easy to operate, intuitive graphical interface

Real time clock with battery supply

Stan-by and Prime power applications, AMF function available

Flexible event based history with up to 350 events

3 Phase generator current measurement

Generator and Mains phase voltage measurement

Active/reactive power measurement

Active and reactive energy counter

Running hours counter, multipurpose flexible timers

Battery charging alternator circuit connection

Comprehensive gen-set protections

Wide range of communication capabilities including :

- CAN and USB on board
- Internet access using Ethernet, GPRS or 4G module
- Support for Modbus and SNMP protocols

Cloud-based monitoring and control via WebSupervisor

Active SMS or e-mails (module required)

Geofencing and tracking via WebSupervisor

Operating temperature -20 + 70°C

IP65 operator interface protection


ENGINE

Brand	Baudouin
Type	4M06G44/5
Made in	China
Engine power [kW]	35,5
Emission standard*	non-emission
Rotation per minute [rpm]	1500
Engine governor	electronic
Governor class**	G3
Displacement [l]	2,3
No of cylinder	4
Fuel system	direct injection
Electrical system [V]	12
Cooling system capacity [l]	16,0
Oil pan capacity [l]	9,5
Fuel type	Diesel (EN 590)

ALTERNATOR

Nominal Voltage [V]	400
Nominal power factor (cos phi)	0,8
Ambient temperature, altitude	40 °C, 1000m AMSL
Nominal Power [kVA]	40,0
IP protection	IP 23
No of bearing	single bearing
Coupling	direct
Technology	brushless
Short circuit maintaining capacity	270% 10s
Efficiency [%]	88,9
Insulation class	H
Total harmonic content THD [%]	<2
Reactance Xd'' [%]	7,4
Voltage regulator type	DVR, digital
Voltage measurement	3 phase
Voltage accuracy [%]	+/- 0,25
AVR supply system	auxiliary winding
AVR supply optional	PMG
Made in	EU

* According directive 97/68/WE non road mobile machinery engine emission.

** According PN-ISO 8528-5/2018



FOCUSSED ON GENERATORS ONLY

Power Generator FD 40 W-ST

STANDARD EQUIPMENT

Baudouin 4M06G44/5 engine	✓
Electronic engine speed governor	✓
Oil low pressure switch	✓
Oil pressure sensor	✓
Engine high temperature switch	✓
Engine high temperature sensor	✓
Engine preheating with thermostat	✓
Engine oil Titan Cargo 15W40	✓
Fuel filter with water separator	✓
Coolant Fuchs Maintain Fricofin HDD	✓
Coolant inlet outside of the canopy *	✓
Starting batteries 100 Ah	✓
Battery charger	✓
GCB Schneider Z63/4	✓
GCB shunt release coil	✓
Controller ComAp IL-AMF25	✓
Acoustic alarm	✓
Emergency stop button	✓
Silenced canopy made with Al.-Zn. *	✓
Standard color 7024	✓
Fuel tank integrated with a frame with drip tray	✓
Welded frame with fuel tank	✓
Fuel inlet inside, protected by canopy locked doors *	✓
Fuel level measurement	✓
Engine and alternator vibro isolators	✓
Exhaust compensator and silencer	✓
Transportation brackets	✓

* Applies only for canopied version

OPTIONAL EQUIPMENT

Oil draining hand pump	□
Battery disconnection switch	□
Power sockets box SOM 105 *	□
Transfer switch controlled by generator controller	□
Transfer switch with ATS controller	□
GPRS communication card	□
Ethernet card	□
RS 485, RS 232 card	□
Remote display	□
Fuel inlet outside of the canopy with lock *	□
Drip space level sensor	□
Fuel and retention pump	□
Alternative fuel tank size 520 l	□
Double wall fuel tank 999 l	□
External fuel tank 1 000 – 10 000 l	□
Fuel tank filling pump and shut-off valve	□

INSTALLATION GUIDELINES

Power terminal	GCB terminal
Recommended cable for up to 30m power cable way	Flexible 5x16 mm ²
Recommended cable for do 30m generator heater supply	Flexible 3x2,5 mm ²
*For additional cable connection with FOGO ATS see ATS wiring diagram	
Exhaust pipe min diameter (max. 7 m, 4 bends)	60,3 mm
Exhaust pipe min diameter (max. 15 m, 4 bends)	60,3 mm

MAINTENANCE GUIDELINES

Fuel filters replacement	500 h / 1 year
Oil replacement	After first 100h, then every 500 h / 1 year
Oil filters replacement	After first 100h, then every 500 h / 1 year
Coolant replacement	4000 h / 2 years
Battery replacement	2 years
Electrical installation supervising	According to local requirements, at least once per year

WARRANTY

Continuous operation generators	12 months up to 1000 working hours
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Version: Mar-22

Datasheet could be changed without notification

www.fogo.pl

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