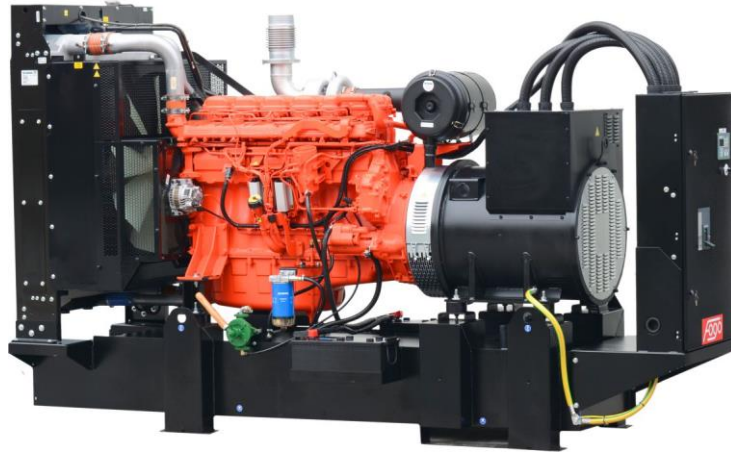


MAIN FEATURES

Highest quality and reliability. ComAp IntelliLite AMF 25 controller. Ready to control MAINS – GENERATOR transfer switch. Configured for both manual and automatic mode (MRS + AMF).	Wide range of standard and optional equipment. Engine heater – ready to load just after start. Frame anticorrosion coating – Zr. Brushless alternator.
Wide range of remote communications options. Schneider NSX type GCB.	



The presented image is for illustration purpose only.

GENERAL DATA

Code	F.0410.SAP.F	Nominal power P.R.P.: 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 24-hour period of operation.
Standby power E.S.P. [kVA] / [kW]	451,0 / 361,0	Stand-by power E.S.P.: Emergency standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload allowed, limited to 200h of operation per year. Max mean load factor of 70% of rated power over 24-hour period of operation
Prime power P.R.P. [kVA] / [kW]	410,0 / 328,0	
Prime current P.R.P [A]	592,0	Remark: Ratings represent the genset performance capabilities to standard conditions specified in ISO 8528-1
Frequency [Hz]	50	
Voltage [V]	400	
Exhaust emission	fuel optimized	
Fuel type	Diesel (EN 590)	
Fuel consumption - 50% load [l/h]	41,1	Norms and directives: <ul style="list-style-type: none"> • Machinery directive 2006/42/EC • Low voltage directive 2014/35/EC • EC directive 2014/30/EC • Emission directive 97/68/EC • ISO 8528-1:2018, ISO 8528-5:2018 • ISO 8528-13:2016 • EN 60204-1
- 75% load [l/h]	59,9	
- 100% load [l/h]	78,8	
- 110% load [l/h]	87,8	
Standard fuel tank capacity [l]	740	
Autonomy with 100% load [h]	9,3	
Engine control voltage [V]	24	
Weight without fuel [kg]	~2970	
Dimensions L x W x H [mm]	3464 x 1242 x 2157	
Acoustic power Lwa [dBA]	126,6 ± 2	
Acoustic pressure Lpa (7m) [dBA]	97,8 ± 2	

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

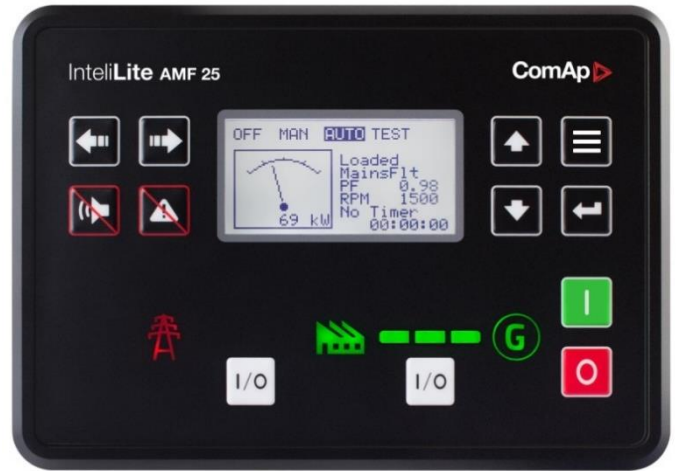
Cloud-based monitoring and control via WebSupervisor

Active SMS or e-mails (module required)

Geofencing and tracking via WebSupervisor

Operating temperature -20 + 70°C

IP65 operator interface protection



ENGINE

Brand	Scania
Type	DC13 072A 02-12
Made in	Sweden
Engine power [kW]	355,0
Emission standard*	fuel optimized
Rotation per minute [rpm]	1500
Engine governor	electronic
Governor class**	G3
Displacement [l]	12,7
No of cylinder	6
Fuel system	unit injectors, PDE
Electrical system [V]	24
Cooling system capacity [l]	38,0
Oil pan capacity [l]	36,0
Fuel type	Diesel (EN 590)

ALTERNATOR

Nominal Voltage [V]	400
Nominal power factor (cos phi)	0,8
Ambient temperature, altitude	40 °C, 1000m a.m.s.l
Nominal Power [kVA]	410,0
IP protection	IP 23
No of bearing	single bearing
Coupling	direct
Technology	brushless
Short circuit maintaining capacity	270% 10s
Efficiency [%]	93,3
Insulation class	H
Total harmonic content THD [%]	1,5
Reactance Xd'' [%]	15,1
Voltage regulator type	DVR, digital
Voltage measurement	3 phases
Voltage accuracy [%]	+/- 0,25
AVR supply system	auxiliary winding
AVR supply optional	PMG
Made in	EU

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

** According ISO 8528-5:2018



FOGO FOCUSED ON GENERATORS ONLY

Power Generator FDF 410 S

STANDARD EQUIPMENT

Scania DC13 072A 02-12 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 LL-35	✓
Starting batteries 2x180Ah	✓
Battery charger	✓
GCB Schneider NSX 630 3P + Mic.2.3	✓
GCB shunt release coil	✓
Controller ComAp IntelliLite AMF 25	✓
Acoustic alarm	✓
Emergency stop button	✓
Welded frame with fuel tank	✓
Fuel level measurement	✓
Exhaust compensator	✓
Engine and alternator vibro isolators	✓
Silencer delivered with the generator	✓
Transportation brackets	✓

OPTIONAL EQUIPMENT

Battery disconnection switch	✓
GCB 4P Schneider NSX Micrologic 2.3	✓
Power Lock type power output	✓
Power socket box	✓
Transfer switch controlled by generator controller	✓
Transfer switch with ATS controller	✓
GPRS communication card	✓
Ethernet card	✓
RS 485, RS 232 card	✓
Remote display	✓
External fuel tank 1 000 – 10 000 l	✓
3-way valve for external fuel tank connection	✓
Fuel tank filling pump and shut-off valve	✓
Oil draining hand pump	✓

**INSTALLATION GUIDELINES**

Power terminal	GCB terminal
Recommended cable for up to 30m power cable way	Flexible 2x5x150 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)	133 mm
Exhaust pipe min diameter (max. 15 m, 4 bends)	

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	1000 h / 2 years
Battery replacement	2 years
Electrical installation supervising	According to local requirements, at least once per year

WARRANTY

Continuous work generators	12 months up to 1000 working hours
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