

MAIN FEATURES

| | |
|---|---|
| Highest quality and reliability. ComAp IL-NT AMF25 controller. | Wide range of standard and optional equipment. 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. |
| Schneider NS type GCB. | |



The presented image is for illustration purpose only.

GENERAL DATA

| | |
|-----------------------------------|--------------------|
| Code | F.0500.SA.G |
| Standby power E.S.P. [kVA] / [kW] | 550,0 / 440,0 |
| Prime power P.R.P. [kVA] / [kW] | 500,0 / 400,0 |
| Prime current P.R.P [A] | 722,0 |
| Frequency [Hz] | 50 |
| Voltage [V] | 400 |
| Exhaust emission | fuel optimized |
| Fuel type | Diesel (EN 590) |
| Fuel consumption - 50% load [l/h] | 48,8 |
| - 75% load [l/h] | 71,7 |
| - 100% load [l/h] | 99,5 |
| - 110% load [l/h] | 111,5 |
| Standard fuel tank capacity [l] | 990 |
| Autonomy with 100% load [h] | 9,9 |
| Engine control voltage [V] | 24 |
| Weight without fuel [kg] | ~4750 |
| Dimensions L x W x H [mm] | 4560 x 1961 x 2521 |
| Guaranteed noise power Lwa [dBA] | 103 |
| Acoustic pressure Lpa (7m) [dBA] | 71,7 ± 1,9 |

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.

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.

Remark:

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/EC
- EC directive 2014/30/EC
- Noise directive 2000/14/EC
- Emission directive 97/68/EC
- ISO 8528-1:2005, ISO 8528-5:2013
- ISO 8528-13:2016
- EN 60204-1

STANDARD CONTROLLER

| |
|---|
| Controller type: AMF 25 |
| Easy to operate, intuitive graphical interface |
| Real time clock with battery supply |
| AMF function available |
| Flexible event based history with up to 119 events |
| 3 Phase generator current measurement |
| Generator and Mains phase voltage measurement |
| Active/reactive power measurement |
| Active and reactive energy counter |
| Running hours counter |
| Battery charging alternator circuit connection |
| Fuel level measurement |
| Generator protection (over/under frequency, voltage, overcurrent) |
| Communication with ECU supporting CAN J1939 standard |
| Communication interface RS 485 and RS 232 supporting Modbus RTU (IL-NT RS232-485 module required) |
| GSM modem / wireless internet (IL-NT GPRS module required) |
| Internet/Ethernet communication (IB-Lite module required) |
| InteliMonitor software for single gen-set view |
| WebSupervisor software for Android mobile devices or PC's for fleet management |
| Active SMS or e-mail (IL-NT GPRS or IB-Lite module required) |



ENGINE

| | |
|-----------------------------|---------------------|
| Brand | Scania |
| Type | DC13 072A 02-14 |
| Made in | Sweden |
| Engine power [kW] | 428,0 |
| 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] | 500,0 |
| IP protection | IP 23 |
| No of bearing | single bearing |
| Coupling | direct |
| Technology | brushless |
| Short circuit maintaining capacity | 270% 10s |
| Efficiency [%] | 93,9 |
| Insulation class | H |
| Total harmonic content THD [%] | 1,5 |
| Reactance Xd'' [%] | 15,2 |
| 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 8528-5:2013



FOGO ON GENERATORS ONLY

Power Generator FDG 500 S

STANDARD EQUIPMENT

| | |
|---|---|
| Scania DC13 072A 02-14 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 | ✓ |
| Coolant inlet outside of the canopy | ✓ |
| Starting batteries 2x180Ah | ✓ |
| Battery charger | ✓ |
| GCB Schneider NS800 3P + Micrologic 2.0 | ✓ |
| GCB shunt release coil | ✓ |
| Bar connection | ✓ |
| Controller ComAp IL-NT-AMF25 | ✓ |
| Controller switch | ✓ |
| Acoustic alarm | ✓ |
| Emergency stop button | ✓ |
| Silenced canopy made with Al.-Zn. | ✓ |
| Standard color RAL 7032 | ✓ |
| Fuel tank installed in drip tray | ✓ |
| Welded frame with fuel tank | ✓ |
| Fuel inlet inside, protected by canopy locked doors | ✓ |
| Fuel level measurement | ✓ |
| Exhaust compensator and silencer | ✓ |
| Engine and alternator vibro isolators | ✓ |
| Transportation brackets | ✓ |

OPTIONAL EQUIPMENT

| | |
|--|---|
| Battery disconnection switch | ✓ |
| GCB 4P Schneider NS Micrologic 2.0 | ✓ |
| 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 | ✓ |
| Drip space level sensor | ✓ |
| External fuel tank 1 000 – 10 000 l | ✓ |
| 3-way valve for external fuel tank connection | ✓ |
| Fuel tank filling pump and shut-off valve | ✓ |
| Non-standard canopy color (RAL palette) | ✓ |
| Oil draining hand pump | ✓ |



FOCUSED ON GENERATORS ONLY

Power Generator FDG 500 S

INSTALLATION GUIDELINES

| | |
|---|----------------------------------|
| Power terminal | Busbar |
| Recommended cable for up to 30m power cable way | Flexible 2x5x240 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 |
|----------------------------|------------------------------------|

Wersja: 01.2019

Datasheet could be changed without notification

www.fogo.pl

FOGO Sp. z o.o.
ul. Świąteczowska 36, Wilkowice
64-115 Świąteczowa

tel. +48 65 534 11 80
fax +48 65 534 11 81
generators@fogo.pl