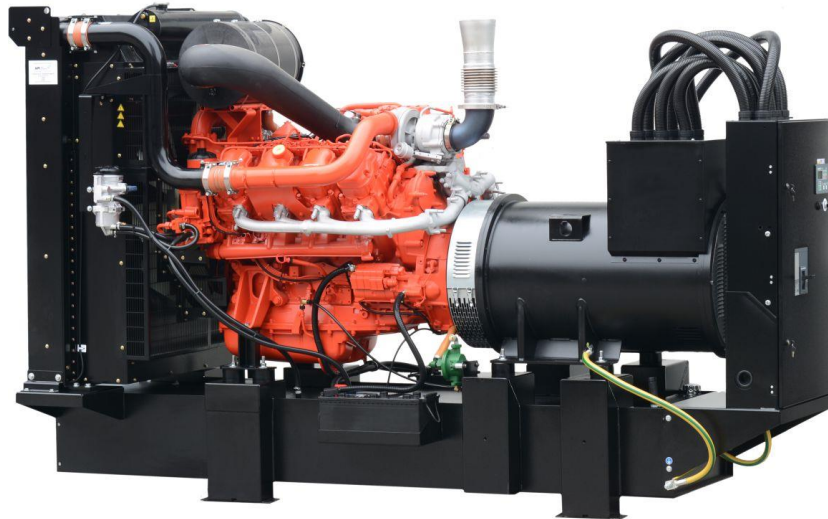


**MAIN FEATURES**

|   |   |
|---|---|
| Highest quality and reliability.<br>ComAp IL-NT AMF25 controller.   | Wide range of standard and optional equipment.<br>Engine heater – ready to load just after start. |
| Ready to control MAINS – GENERATOR transfer switch.<br>Configured for both manual and automatic mode (MRS + AMF). | Frame anticorrosion coating – Zr.<br>Brushless alternator.  |
| Wide range of remote communications options.<br>Schneider NS type GCB.  |   |



The presented image is for illustration purpose only.

**GENERAL DATA**

|                                   |                    |                               |  |
|-----------------------------------|--------------------|-------------------------------|--|
| Code                              | F.0600.SA.F        | <b>Nominal power P.R.P.:</b>  | 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] | 660,0 / 528,0      | <b>Stand-by power E.S.P.:</b> | 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]   | 600,0 / 480,0      | <b>Remark:</b>                | Ratings represent the genset performance capabilities to standard conditions specified in ISO 8528-1   |
| Prime current P.R.P [A]           | 866,0              | <b>Norms and directives:</b>  | <ul style="list-style-type: none"> <li>• Machinery directive 2006/42/EC</li> <li>• Low voltage directive 2014/35/EC</li> <li>• EC directive 2014/30/EC</li> <li>• Emission directive 97/68/EC</li> <li>• ISO 8528-1:2005, ISO 8528-5:2013</li> <li>• ISO 8528-13:2016</li> <li>• EN 60204-1</li> </ul> |
| Frequency [Hz]                    | 50                 |                               |  |
| Voltage [V]                       | 400                |                               |  |
| Exhaust emission                  | fuel optimized     |                               |  |
| Fuel type                         | Diesel (EN 590)    |                               |  |
| Fuel consumption - 50% load [l/h] | 61,6               |                               |  |
| - 75% load [l/h]                  | 88,5               |                               |  |
| - 100% load [l/h]                 | 119,6              |                               |  |
| - 110% load [l/h]                 | 134,6              |                               |  |
| Standard fuel tank capacity [l]   | 740                |                               |  |
| Autonomy with 100% load [h]       | 6,0                |                               |  |
| Engine control voltage [V]        | 24                 |                               |  |
| Weight without fuel [kg]          | ~3870              |                               |  |
| Dimensions L x W x H [mm]         | 3516 x 1466 x 2192 |                               |  |
| Acoustic power Lwa [dBA]          | ~127               |                               |  |
| Acoustic pressure Lpa (7m) [dBA]  | ~98                |                               |  |

### 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                        | DC16 093A 02-53     |
| Made in                     | Sweden              |
| Engine power [kW]           | 516,0               |
| Emission standard*          | fuel optimized      |
| Rotation per minute [rpm]   | 1500                |
| Engine governor             | electronic          |
| Governor class**            | G3                  |
| Displacement [l]            | 16,4                |
| No of cylinder              | 8                   |
| Fuel system                 | unit injectors, PDE |
| Electrical system [V]       | 24                  |
| Cooling system capacity [l] | 68,0                |
| Oil pan capacity [l]        | 48,0                |
| 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]                | 600,0                |
| IP protection                      | IP 23                |
| No of bearing                      | single bearing       |
| Coupling                           | direct               |
| Technology                         | brushless            |
| Short circuit maintaining capacity | 270% 10s             |
| Efficiency [%]                     | 94,6                 |
| Insulation class                   | H                    |
| Total harmonic content THD [%]     | 1,5                  |
| Reactance Xd'' [%]                 | 14                   |
| 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 FOCUSED ON GENERATORS ONLY

## Power Generator FDF 600 S draft

### STANDARD EQUIPMENT

|  |   |
|--|---|
| Scania DC16 093A 02-53 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 NS1000 3P + Micrologic 2.0 | ✓ |
| GCB shunt release coil                   | ✓ |
| Bar connection                           | ✓ |
| Controller ComAp IL-NT-AMF25             | ✓ |
| Controller switch                        | ✓ |
| 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 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                                     | ✓ |
| 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                             | ✓ |



**FOCUSSED ON GENERATORS ONLY**

**Power Generator FDF 600 S draft**

### INSTALLATION GUIDELINES

|  |                                  |
|--|----------------------------------|
| Power terminal                                       | Busbar                           |
| Recommended cable for up to 30m power cable way      | Flexible 2x5x240 mm <sup>2</sup> |
| Recommended cable for do 30m generator heater supply | Flexible 3x2,5 mm <sup>2</sup>   |

\*For additional cable connection with FOGO ATS see ATS wiring diagram

|  |        |
|--|--------|
| Exhaust pipe min diameter (max. 7 m, 4 bends)  | 159 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](http://www.fogo.pl)

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