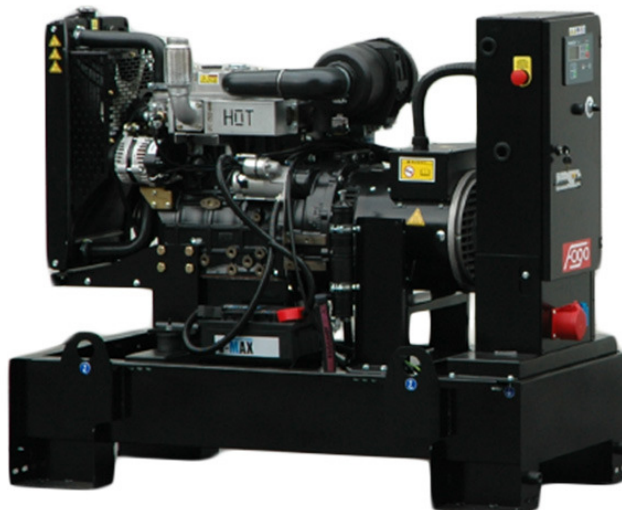


MAIN FEATURES

- Optimal performance resulting from the engine and alternator parameters,
- The highest quality of electrical components,
- Welded frame with integrated fuel tank,
- Large capacity fuel tanks available on request,
- Compact frame, adapted to the monoblock dimensions,
- Easy maintenance access,
- Fuel tank non integrated with the frame as well as drip tray protecting against engine liquid leakage, available on request,
- Wide range of standard and optional equipment



the picture above is for reference only

GENERAL DATA

| | |
|-----------------------------------|-------------------|
| Model | FDF 13 PD |
| Standby power E.S.P. [kVA] / [kW] | 14,0 / 11,2 |
| Prime power P.R.P. [kVA] / [kW] | 12,3 / 9,8 |
| Prime current P.R.P [A] | 18,0 |
| Frequency [Hz] | 50 |
| Voltage [V] | 400 |
| Exhaust emission | non-emission |
| Fuel type | Diesel (EN 590) |
| Fuel consumption - 50% load [l/h] | 2,0 |
| - 75% load [l/h] | 2,8 |
| - 100% load [l/h] | 3,7 |
| - 110% load [l/h] | 4,1 |
| Standard fuel tank capacity [l] | 75 |
| Autonomy with 100% load [h] | 20,0 |
| Engine control voltage [V] | 12 |
| Weight without fuel [kg] | ~410 |
| Dimensions L x W x H [mm] | 1477 x 730 x 1240 |
| Acoustic power Lwa [dBA] | - |
| Acoustic pressure Lpa (7m) [dBA] | - |

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 80% P.R.P for each 24h of work.

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 500 operation hours per year. Limited to 300 operation hours of continuous duty.

Remark:

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

Norms and directives:

- Machinery directive 2006/42/WE
- Low voltage directive 2006/95/WE
- EC directive 2004/108/WE
- Emission directive 97/68/WE
- ISO 8528-1/2005, PN-ISO 8528-5/2005
- PN-EN 12601
- PN-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 | Perkins |
| Type | 403A-15G1 |
| Made in | Great Britain |
| Engine power [kW] | 12,0 |
| Emission standard* | non-emission |
| Rotation per minute [rpm] | 1500 |
| Engine governor | mechaniczna |
| Governor class** | G2 |
| Displacement [l] | 1,5 |
| No of cylinder | 3 |
| Fuel system | direct injection |
| Electrical system [V] | 12 |
| Coolant | Shell Anti Freeze |
| Cooling system capacity [l] | 6,0 |
| Engine oil | Shell Rimula R4L |
| Oil pan capacity [l] | 6,0 |
| Fuel type | Diesel (EN 590) |
| Fuel consumption at 75% load [l/h] | 2,8 |
| Fuel consumption at 100% load [l/h] | 3,7 |

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

** According PN-ISO 8528-5/2005

ALTERNATOR

| | |
|--|---------------|
| Brand | Stamford* |
| Type | PI044F |
| Made in | Great Britain |
| Power (40 °C, 1000m a.m.s.l.) [kVA] | 12,5 |
| Stand by power (27 °C, 1000m a.m.s.l.) [kVA] | 13,8 |
| Efficiency [%] | 82,1 |
| Voltage regulator type | AS 480 |
| Voltage accuracy [%] | +/- 1 |
| IP protection | IP 23 |
| Insulation class | H |
| Total harmonic content THD [%] | <2,0 |
| Reactance Xd'' [%] | 12 |

* STAMFORD or other alternator suppliers on request. Genset general data may change in this case.



FOCUSSED ON GENERATORS ONLY

Power Generator FDF 13 PD draft

STANDARD EQUIPMENT

| | |
|--|---|
| Controller ComAp AMF25 | ✓ |
| Controller switch | ✓ |
| 3 Pole GCB Eaton FAZ-Z20/3 | ✓ |
| Shunt GCB release coil | ✓ |
| Acoustic alarm | ✓ |
| Emergency stop button | ✓ |
| Starting batteries 75 Ah | ✓ |
| Battery charger | ✓ |
| Engine preheating with thermostat | ✓ |
| Engine oil Shell Rimula R4L | ✓ |
| Oil low pressure switch | ✓ |
| Engine high temperature switch | ✓ |
| Fuel tank integrated in frame with drip tray | ✓ |
| Frame with fuel tank | ✓ |
| Fuel level measurement | ✓ |
| Fuel filter with water separator | ✓ |
| Exhaust compensator and silencer | ✓ |
| Coolant Shell Anti Freeze | ✓ |
| Engine and alternator vibro isolators | ✓ |
| Transportation brackets | ✓ |

OPTIONAL EQUIPMENT

| | |
|--|---|
| 4 Pole GCB Schneider NSX Micrologic 2.3 | ✓ |
| Oil draining hand pump | ✓ |
| Fuel and retention pump | ✓ |
| Oil pressure sensor | ✓ |
| Engine high temperature sensor | ✓ |
| Drip space level sensor | ✓ |
| Dedicated (non-standard) fuel tank * | ✓ |
| External fuel tank 1 000 – 10 000 l | ✓ |
| Fuel tank filling pump and shut-off valve | ✓ |
| Battery disconnection switch | ✓ |
| Transfer switch controlled by generator controller | ✓ |
| GPRS communication modem | ✓ |
| Ethernet card | ✓ |
| RS 485, RS 232 card | ✓ |
| Remote display | ✓ |

*according to individual agreement

**INSTALLATION GUIDELINES**

| | |
|--|-------------------------------|
| Power terminal | GCB terminal |
| Recommended cable for up to 30m power cable way | Flexible 5x6mm ² |
| Recommended cable for do 30m generator heater supply | Flexible 3x2,5mm ² |
| *For additional cabale connection with FOGO ATS see ATS wiring diagram | |
| Exhaust pipe min diameter (max. 7 m, 4 bends) | 48,3 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 | 1000 h / 2 years |
| Battery replacement | 2 years |
| Electrical installation supervising | According to local requirements, at least once per year |

WARRANTY

| | |
|----------------------------|--|
| Back-up power generators | 60 months up to 1000 working hours, under condition of required maintenance according to the warranty conditions |
| Continuous work generators | 12 months up to 1000 working hours |