

**MAIN FEATURES**

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


**GENERAL DATA**

|                                   |                    |
|-----------------------------------|--------------------|
| Code                              | F.0150.VA.G        |
| Standby power E.S.P. [kVA] / [kW] | 165,0 / 132,0      |
| Prime power P.R.P. [kVA] / [kW]   | 150,0 / 120,0      |
| Prime current P.R.P [A]           | 217,0              |
| Frequency [Hz]                    | 50                 |
| Voltage [V]                       | 400                |
| Exhaust emission                  | stage II           |
| Fuel type                         | Diesel (EN 590)    |
| Fuel consumption - 50% load [l/h] | 19,2               |
| - 75% load [l/h]                  | 27,1               |
| - 100% load [l/h]                 | 35,6               |
| - 110% load [l/h]                 | 39,0               |
| Standard fuel tank capacity [l]   | 410                |
| Autonomy with 100% load [h]       | 11,5               |
| Engine control voltage [V]        | 12                 |
| Weight without fuel [kg]          | 2480               |
| Dimensions L x W x H [mm]         | 3650 x 1512 x 2226 |
| Guaranteed noise power Lwa [dBA]  | 97                 |
| Acoustic pressure Lpa (7m) [dBA]  | 66,8 ± 2,6         |

**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 1h within a 12-hour period of operation. Average power consumption should not exceed 70% PRP for each 24 hours 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 500h of operation per year, average power consumption should not exceed 80% ESP for each 24 hours of operation. Continuous operation limited to 300h..

**Remark:**

All parameters are given for reference conditions: ambient air temperature up to 40°C and site altitude above sea level 1000m.

**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                       | Volvo           |
| Type                        | TAD731GE        |
| Made in                     | Germany         |
| Engine power [kW]           | 134,0           |
| Emission standard*          | stage II        |
| Rotation per minute [rpm]   | 1500            |
| Engine governor             | electronic      |
| Governor class**            | G3              |
| Displacement [l]            | 7,2             |
| No of cylinder              | 6               |
| Fuel system                 | unit injectors  |
| Electrical system [V]       | 12              |
| Cooling system capacity [l] | 23,8            |
| Oil pan capacity [l]        | 20,0            |
| 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]                | 150,0                |
| IP protection                      | IP 23                |
| No of bearing                      | single bearing       |
| Coupling                           | direct               |
| Technology                         | brushless            |
| Short circuit maintaining capacity | 270% 10s             |
| Efficiency [%]                     | 92,3                 |
| Insulation class                   | H                    |
| Total harmonic content THD [%]     | <2                   |
| Reactance Xd'' [%]                 | 10,3                 |
| Voltage regulator type             | 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

**FOCUSED ON GENERATORS ONLY****Power Generator FDG 150 V****STANDARD EQUIPMENT****OPTIONAL EQUIPMENT**

|  |   |  |   |
|--|---|--|---|
| Volvo TAD731GE engine                            | ✓ | Battery disconnection switch                       | ✓ |
| Electronic engine speed governor                 | ✓ | GCB 4P Schneider NSX Micrologic 2.2                | ✓ |
| Oil low pressure switch                          | ✓ | Power Lock type power output                       | ✓ |
| Oil pressure sensor                              | ✓ | Power socket box                                   | ✓ |
| Engine high temperature switch                   | ✓ | Transfer switch controlled by generator controller | ✓ |
| Engine high temperature sensor                   | ✓ | Transfer switch with ATS controller                | ✓ |
| Engine preheating with thermostat                | ✓ | GPRS communication card                            | ✓ |
| Engine oil Titan Cargo 15W40                     | ✓ | Ethernet card                                      | ✓ |
| Oil draining hand pump                           | ✓ | RS 485, RS 232 card                                | ✓ |
| Fuel filter with water separator                 | ✓ | Remote display                                     | ✓ |
| Coolant Fuchs Maintain Fricofin LL-35            | ✓ | Drip space level sensor                            | ✓ |
| Coolant inlet outside of the canopy              | ✓ | Fuel and retention pump                            | ✓ |
| Starting batteries 2x 100 Ah                     | ✓ | Non-standard fuel tank size                        | ✓ |
| Battery charger                                  | ✓ | External fuel tank 1 000 – 10 000 l                | ✓ |
| GCB Schneider NSX 250 3P + Mic.2.2               | ✓ | 3-way valve for external fuel tank connection      | ✓ |
| GCB shunt release coil                           | ✓ | Fuel tank filling pump and shut-off valve          | ✓ |
| Controller ComAp IL-NT-AMF25                     | ✓ | Non-standard canopy color (RAL palette)            | ✓ |
| Controller switch                                | ✓ |  |   |
| Acoustic alarm                                   | ✓ |  |   |
| Emergency stop button                            | ✓ |  |   |
| Silenced canopy made with Al.-Zn.                | ✓ |  |   |
| Standard color RAL 7032                          | ✓ |  |   |
| Fuel tank integrated with a frame with drip tray | ✓ |  |   |
| Welded frame with fuel tank                      | ✓ |  |   |
| Fuel inlet outside of the canopy with lock       | ✓ |  |   |
| Fuel level measurement                           | ✓ |  |   |
| Exhaust compensator and silencer                 | ✓ |  |   |
| Engine and alternator vibro isolators            | ✓ |  |   |
| Transportation brackets                          | ✓ |  |   |

**INSTALLATION GUIDELINES**

|  |                                |
|--|--------------------------------|
| Power terminal                                       | GCB terminal                   |
| Recommended cable for up to 30m power cable way      | Flexible 5x95 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)  | 101,6 mm |
| Exhaust pipe min diameter (max. 15 m, 4 bends) | 114,3 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**

|                            |                                    |
|----------------------------|------------------------------------|
| Continuous work generators | 12 months up to 1000 working hours |
|----------------------------|------------------------------------|