

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. Drip tray, Anticorrosion coating: frame - Zr, canopy – Zr, Al-Zn. |
| Wide range of remote communications options. Schneider NS type GCB. | Brushless alternator. |


GENERAL DATA

| | |
|-----------------------------------|--------------------|
| Code | F.0455.VAP.G |
| Standby power E.S.P. [kVA] / [kW] | 501,0 / 400,0 |
| Prime power P.R.P. [kVA] / [kW] | 455,0 / 364,0 |
| Prime current P.R.P [A] | 657,0 |
| Frequency [Hz] | 50 |
| Voltage [V] | 400 |
| Exhaust emission | stage II |
| Fuel type | Diesel (EN 590) |
| Fuel consumption - 50% load [l/h] | 48,0 |
| - 75% load [l/h] | 70,1 |
| - 100% load [l/h] | 92,1 |
| - 110% load [l/h] | 101,1 |
| Standard fuel tank capacity [l] | 725 |
| Autonomy with 100% load [h] | 7,9 |
| Engine control voltage [V] | 24 |
| Weight without fuel [kg] | ~4440 |
| Dimensions L x W x H [mm] | 4350 x 1600 x 2546 |
| Guaranteed noise power Lwa [dBA] | 98 |
| Acoustic pressure Lpa (7m) [dBA] | 68,1 ± 2,1 |

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 8528-1:2018, ISO 8528-5:2018
- ISO 8528-13:2016
- EN 60204-1

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

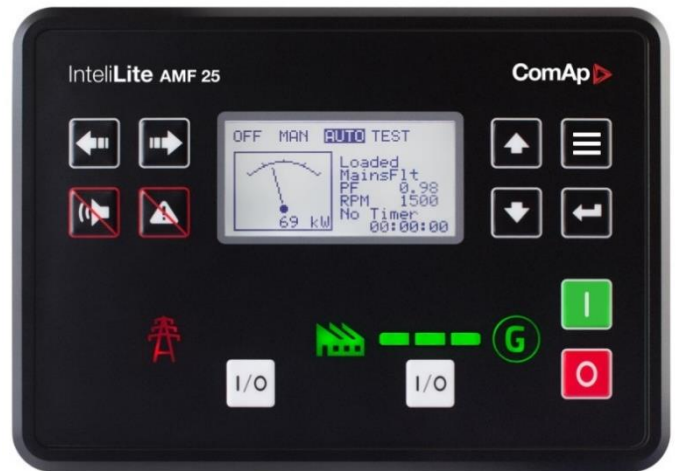
Cloud-based monitoring and control via WebSupervisor

Active SMS or e-mails (module required)

Geofencing and tracking via WebSupervisor

Operating temperature -20 + 70°C

IP65 operator interface protection



ENGINE

| | |
|-----------------------------|-----------------|
| Brand | Volvo |
| Type | TAD1345GE |
| Made in | Sweden |
| Engine power [kW] | 388,0 |
| Emission standard* | stage II |
| Rotation per minute [rpm] | 1500 |
| Engine governor | electronic |
| Governor class** | G3 |
| Displacement [l] | 12,8 |
| No of cylinder | 6 |
| Fuel system | unit injectors |
| Electrical system [V] | 24 |
| Cooling system capacity [l] | 44,0 |
| Oil pan capacity [l] | 36,0 |
| Fuel type | Diesel (EN 590) |

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

** According ISO 8528-5:2018

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] | 455,0 |
| IP protection | IP 23 |
| No of bearing | single bearing |
| Coupling | direct |
| Technology | brushless |
| Short circuit maintaining capacity | 270% 10s |
| Efficiency [%] | 94,2 |
| Insulation class | H |
| Total harmonic content THD [%] | 1,5 |
| Reactance Xd'' [%] | 13,9 |
| Voltage regulator type | digital |
| Voltage measurement | 3 phases |
| Voltage accuracy [%] | +/- 0,25 |
| AVR supply system | auxiliary winding |
| AVR supply optional | PMG |
| Made in | EU |



FOGO ON GENERATORS ONLY

Power Generator FDG 455 V

STANDARD EQUIPMENT

| | |
|--|---|
| Volvo TAD1345GE 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 | ✓ |
| Oil draining hand pump | ✓ |
| Fuel filter with water separator | ✓ |
| Coolant Fuchs Maintain Fricofin LL-35 | ✓ |
| Coolant inlet outside of the canopy | ✓ |
| Starting batteries 2x 180 Ah | ✓ |
| Battery charger | ✓ |
| GCB Schneider NS800 3P +Mic 2.0 | ✓ |
| GCB shunt release coil | ✓ |
| Bar connection | ✓ |
| Controller ComAp InteliLite AMF 25 | ✓ |
| 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 | ✓ |

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 | ✓ |
| Fuel and retention pump | ✓ |
| Non-standard fuel tank size | ✓ |
| 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) | ✓ |

**INSTALLATION GUIDELINES**

| | |
|---|----------------------------------|
| Power terminal | Busbar |
| Recommended cable for up to 30m power cable way | Flexible 2x5x185 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) | 114,3 mm |
| Exhaust pipe min diameter (max. 15 m, 4 bends) | 159 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 |
|----------------------------|------------------------------------|