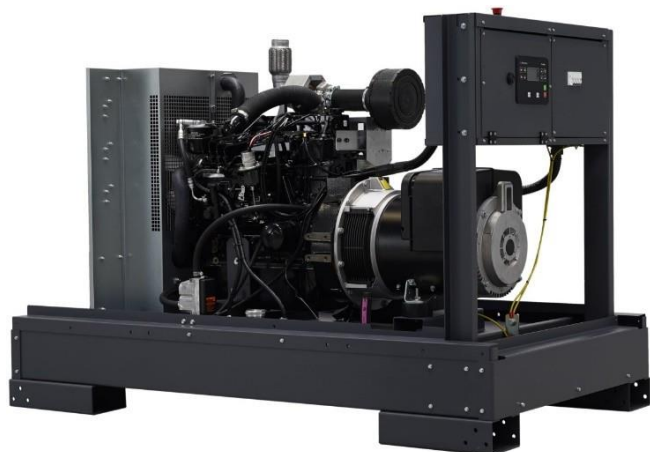


## MAIN FEATURES

Highest quality and reliability. ComAp IntelliLite AMF 25 controller.	Wide range of standard and optional equipment. Engine heater – ready to load just after start.
Ready to control MAINS – GENERATOR transfer switch. Configured for both manual and automatic mode (MRS + AMF).	Drip tray, Anticorrosion coating: frame - Zr, canopy – Zr, Al-Zn.
Wide range of remote communications options.	Brushless alternator.



## GENERAL DATA

Standby power E.S.P. [kVA] / [kW]	33,0 / 26,4
Prime power P.R.P. [kVA] / [kW]	30,0 / 24,0
Prime current P.R.P [A]	43,3
Frequency [Hz]	50
Voltage [V]	400
Exhaust emission	non-emission
Fuel type	Diesel (EN 590)
Fuel consumption - 50% load [l/h]	4,1
- 75% load [l/h]	5,6
- 100% load [l/h]	7,2
- 110% load [l/h]	8,1
Engine control voltage [V]	12
Standard fuel tank capacity [l]	210
Autonomy with 100% load [h]	27,7
Design	S2003T210

Generator version	open	canopy
Model	FD 32P-ST1	FD 32P-ST
Weight without fuel [kg]	~720	940
Dimensions L x W x H [mm]	2000 x 1110 x 1310	2000 x 1130 x 1450
Guaranteed noise power L <sub>wa</sub> [dBA]	114,3 ± 1,4	~96
Acoustic pressure L <sub>pa</sub> 7m [dBA]	84,4 ± 1,4	67,0 ± 1,4

### Prime Power PRP:

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% PRP for each 24-hour period of

### Standby power ESP:

Emergency standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload allowed, limited to 500 hours of operation per year. Continuous operation limited to 300h.

### Remarks:

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/EU
- EMC directive 2014/30/EU
- Noise directive 2000/14/EC
- Emission directive 97/68/EC
- ISO 8528-1:2018, ISO 8528-5:2018
- ISO 8528-13:2016
- IEC 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	Perkins
Type	1103A-33G
Made in	Great Britain
Engine power [kW]	27,7
Emission standard*	non-emission
Rotation per minute [rpm]	1500
Engine governor	mechanical
Governor class**	G2
Displacement [l]	3,3
No of cylinder	3
Fuel system	direct injection
Electrical system [V]	12
Cooling system capacity [l]	10,2
Oil pan capacity [l]	7,9
Fuel type	Diesel (EN 590)

## ALTERNATOR

Nominal Voltage [V]	400
Nominal power factor (cos phi)	0,8
Ambient temperature, altitude	40 °C, 1000m n.p.m.
Nominal Power [kVA]	32,0
IP protection	IP 23
No of bearing	single bearing
Coupling	direct
Technology	brushless
Short circuit maintaining capacity	270% 10s
Efficiency [%]	87,6
Insulation class	H
Total harmonic content THD [%]	<2
Reactance Xd'' [%]	8,1
Voltage regulator type	DVR, digital
Voltage measurement	3 phases
Voltage accuracy [%]	+/- 0,5
AVR supply system	auxiliary winding
Made in	EU

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

\*\* According PN-ISO 8528-5/2018

## STANDARD EQUIPMENT

## OPTIONAL EQUIPMENT

Perkins 1103A-33G engine	✓	Oil pressure sensor	□
Oil low pressure switch	✓	Engine temperature sensor	□
Engine high temperature switch	✓	Oil draining hand pump	□
Engine preheating with thermostat	✓	Battery disconnection switch	□
Engine oil Titan Cargo 15W40	✓	GCB	□
Fuel filter with water separator	✓	Power socket connection *	□
Coolant Fuchs Maintain Fricofin LL-50	✓	Power sockets box SOM 105 *	□
Coolant inlet outside of the canopy *	✓	Transfer switch controlled by generator controller	□
Starting batteries 100 Ah	✓	Transfer switch with ATS controller	□
Battery charger	✓	GPRS communication card	□
GCB Schneider Z50/4	✓	Ethernet card	□
GCB shunt release coil	✓	RS 485, RS 232 card	□
Controller ComAp IL-AMF25	✓	Remote display	□
Acoustic alarm	✓	Fuel inlet outside of the canopy with lock *	□
Emergency stop button	✓	Drip space level sensor	□
Silenced canopy made with Al.-Zn. *	✓	Fuel and retention pump	□
Standard color 7024	✓	Alternative fuel tank size 9991	□
Fuel tank integrated with a frame with drip tray	✓	Double wall fuel tank 9991	□
Welded frame with fuel tank	✓	External fuel tank 1 000 – 10 000 l	□
Fuel inlet inside, protected by canopy locked doors *	✓	Fuel tank filling pump and shut-off valve	□
Fuel level measurement	✓		
Engine and alternator vibro isolators	✓		
Exhaust compensator and silencer	✓		
Transportation brackets	✓		

\* Applies only for canopied version

## INSTALLATION GUIDELINES

Power terminal	GCB terminal
Recommended cable for up to 30m power cable way	Flexible 5x10 mm <sup>2</sup>
Recommended cable for do 30m generator heater supply	Flexible 3x2,5 mm <sup>2</sup>
*For additional cable connection with ATS see ATS wiring diagram	
Exhaust pipe min diameter (max. 7 m, 4 bends)	60,3 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

Continuous operation generators	12 months up to 1000 working hours
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