

### 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.	Brushless alternator.

Pictures for reference only

### GENERAL DATA

Standby power ESP [kVA] / [kW]	55,0 / 44,0
Prime power PRP [kVA] / [kW]	50,0 / 40,0
Prime current PRP [A]	72,0
Frequency [Hz]	50
Voltage [V]	400
Exhaust emission	non-emission
Fuel type	Diesel (EN 590)
Fuel consumption - 50% load [l/h]	6,1
- 75% load [l/h]	9,6
- 100% load [l/h]	11,6
- 110% load [l/h]	12,7
Engine control voltage [V]	12
Standard fuel tank capacity [l]	240
Autonomy with 100% load [h]	19,6
Design	S2201T240

#### Prime Power PRP:

Prime power available in variable load application in accordance with ISO 8528, A 10% overload capacity is available for a period of 1 hour within a 12h period of operation. Average power consumption should not exceed 80% PRP for each 24h of operation.

#### 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 200h of operation per year, max average power consumption 70% of ESP.

#### Remarks:

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/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

Generator version	open	canopy
Model	FD 50 I-ST1	FD 50 I-ST
Weight without fuel [kg]	880	1060
Dimensions L x W x H [mm]	2190 x 1110 x 1320	2200 x 1130 x 1460
Guaranteed noise power Lwa [dBA]	115,8 ± 2,2	97
Acoustic pressure @7m Lpa [dBA]	86 ± 2,2	68,6 ± 1

### STANDARD CONTROLLER

Controller type: ComAp IntelliLite AMF 25

Easy to operate, intuitive graphical interface

Real time clock with battery supply

Stand-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	FPT (Iveco)
Type	NEF45AM2
Made in	Italy
Engine power [kW]	45,0
Emission standard*	non-emission
Rotation per minute [rpm]	1500
Engine governor	mechanical
Governor class**	G2
Displacement [l]	4,5
No of cylinder	4
Fuel system	direct injection
Electrical system [V]	12
Cooling system capacity [l]	17,0
Oil pan capacity [l]	12,8
Fuel type	Diesel (EN 590)

### ALTERNATOR

Nominal Voltage [V]	400
Nominal power factor (cos phi)	0,8
Ambient temperature, altitude	40 °C, 1000m AMSL
Nominal Power [kVA]	50,0
IP protection	IP 23
No of bearing	single bearing
Coupling	direct
Technology	brushless
Short circuit maintaining capacity	270% 10s
Efficiency [%]	89,4
Insulation class	H
Total harmonic content THD [%]	<2
Reactance Xd'' [%]	7
Voltage regulator type	DVR, digital
Voltage measurement	3 phase
Voltage accuracy [%]	+/- 0,25
AVR supply system	auxiliary winding
AVR supply optional	PMG
Made in	EU

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

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

### STANDARD EQUIPMENT

FPT (Iveco) NEF45AM2 engine	✓
Oil low pressure switch	✓
Engine high temperature switch	✓
Engine preheating with thermostat	✓
Engine oil Titan Cargo 15W40	✓
Fuel filter with water separator	✓
Coolant Fuchs Maintain Fricofin LL-50	✓
Coolant inlet outside of the canopy *	✓
Starting batteries 100 Ah	✓
Battery charger	✓
GCB Schneider NSX 160 3P + Mic.2.2	✓
GCB shunt release coil	✓
Controller ComAp IL-AMF25	✓
Acoustic alarm	✓
Emergency stop button	✓
Silenced canopy made with Al.-Zn. *	✓
Standard color 7024	✓
Fuel tank integrated with a frame with drip tray	✓
Welded frame with fuel tank	✓
Fuel inlet inside, protected by canopy locked doors *	✓
Fuel level measurement	✓
Engine and alternator vibro isolators	✓
Exhaust compensator and silencer	✓
Transportation brackets	✓

### OPTIONAL EQUIPMENT

Electronic engine speed governor	□
Oil pressure sensor	□
Engine temperature sensor	□
Oil draining hand pump	□
Battery disconnection switch	□
GCB 4P Schneider NSX Micrologic 2.2	□
Power socket connection *	□
Power sockets box SOM 104 *	□
Transfer switch controlled by generator controller	□
Transfer switch with ATS controller	□
GPRS communication card	□
Ethernet card	□
RS 485, RS 232 card	□
Remote display	□
Fuel inlet outside of the canopy with lock *	□
Drip space level sensor	□
Fuel and retention pump	□
Alternative fuel tank size 590 l	□
External fuel tank 1 000 – 10 000 l	□
Fuel tank filling pump and shut-off valve	□

\* Applies only for canopied version

### INSTALLATION GUIDELINES

Power terminal	GCB terminal
Recommended cable for up to 30m power cable way	Flexible 5x16 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)	60,3mm
Exhaust pipe min diameter (max. 15 m, 4 bends)	88,9 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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