

MAIN FEATURES

Highest quality and reliability. ComAp IL-NT AMF25 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, Frame anticorrosion coating – Zr.
Wide range of remote communications options. Schneider NSX type GCB.	Brushless alternator.



The presented image is for illustration purpose only.

GENERAL DATA

Code	F.0100.IA.F	Nominal power P.R.P.: 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 E.S.P. [kVA] / [kW]	109,0 / 87,0	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 200h of operation per year, max average power consumption 70% of ESP
Prime power P.R.P. [kVA] / [kW]	99,0 / 79,0	
Prime current P.R.P [A]	143,0	Remark: All parameters are given for reference conditions: ambient air temperature up to 40 C and site altitude above sea level 1000m
Frequency [Hz]	50	
Voltage [V]	400	
Exhaust emission	stage II	
Fuel type	Diesel (EN 590)	Norms and directives:
Fuel consumption - 50% load [l/h]	12,5	
- 75% load [l/h]	17,6	
- 100% load [l/h]	22,1	
- 110% load [l/h]	24,4	
Standard fuel tank capacity [l]	200	<ul style="list-style-type: none"> • Machinery directive 2006/42/EC • Low voltage directive 2014/35/EC • EC directive 2014/30/EC • Emission directive 97/68/EC • ISO 8528-1:2005, ISO 8528-5:2013 • ISO 8528-13:2016 • EN 60204-1
Autonomy with 100% load [h]	9,0	
Engine control voltage [V]	12	
Weight without fuel [kg]	~1000	
Dimensions L x W x H [mm]	2232 x 790 x 1554	
Acoustic power Lwa [dBA]	114 ± 2,7	
Acoustic pressure Lpa (7m) [dBA]	85,5 ± 2,7	

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	FPT (Iveco)
Type	NEF45TM2A
Made in	Italy
Engine power [kW]	87,0
Emission standard*	stage II
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]	18,5
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 a.m.s.l
Nominal Power [kVA]	100,0
IP protection	IP 23
No of bearing	single bearing
Coupling	direct
Technology	brushless
Short circuit maintaining capacity	270% 10s
Efficiency [%]	90,8
Insulation class	H
Total harmonic content THD [%]	<2
Reactance Xd'' [%]	8,8
Voltage regulator type	DVR, 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

**STANDARD EQUIPMENT****OPTIONAL EQUIPMENT**

FPT (Iveco) NEF45TM2A engine	✓	Electronic engine speed governor	✓
Oil low pressure switch	✓	Oil pressure sensor	✓
Engine high temperature switch	✓	Engine temperature sensor	✓
Engine preheating with thermostat	✓	Oil draining hand pump	✓
Engine oil Titan Cargo 15W40	✓	Battery disconnection switch	✓
Fuel filter with water separator	✓	GCB 4P Schneider NSX Micrologic 2.2	✓
Coolant Fuchs Maintain Fricofin LL-35	✓	Power Lock type power output	✓
Starting batteries 100 Ah	✓	Power socket box	✓
Battery charger	✓	Transfer switch controlled by generator controller	✓
GCB Schneider NSX 160 3P + Mic.2.2	✓	Transfer switch with ATS controller	✓
GCB shunt release coil	✓	GPRS communication card	✓
Controller ComAp IL-NT-AMF25	✓	Ethernet card	✓
Controller switch	✓	RS 485, RS 232 card	✓
Acoustic alarm	✓	Remote display	✓
Emergency stop button	✓	Drip space level sensor	✓
Welded frame with fuel tank	✓	Fuel and retention pump	✓
Frame with drip tray	✓	Non-standard fuel tank size	✓
Fuel level measurement	✓	External fuel tank 1 000 – 10 000 l	✓
Exhaust compensator	✓	3-way valve for external fuel tank connection	✓
Engine and alternator vibro isolators	✓	Fuel tank filling pump and shut-off valve	✓
Silencer delivered with the generator	✓		
Transportation brackets	✓		

**INSTALLATION GUIDELINES**

Power terminal	GCB terminal
Recommended cable for up to 30m power cable way	Flexible 5x50 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)	88,9 mm
Exhaust pipe min diameter (max. 15 m, 4 bends)	101,6 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
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