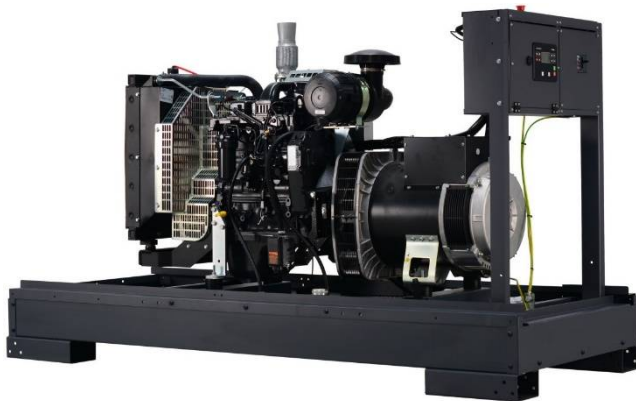


MAIN FEATURES

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 remote communications options.	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. Brushless alternator.
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Pictures for reference only

GENERAL DATA

Standby power ESP [kVA] / [kW]	88,0 / 70,0
Prime power PRP [kVA] / [kW]	80,0 / 64,0
Prime current PRP [A]	115,0
Frequency [Hz]	50
Voltage [V]	400
Exhaust emission	non-emission
Fuel type	Diesel (EN 590)
Fuel consumption - 50% load [l/h]	9,4
- 75% load [l/h]	14
- 100% load [l/h]	18,7
- 110% load [l/h]	20,4
Engine control voltage [V]	12
Standard fuel tank capacity [l]	290
Autonomy with 100% load [h]	14,7
Design	S2671T290

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 80 I-ST1	FD 80 I-ST
Weight without fuel [kg]	1020	1340
Dimensions L x W x H [mm]	2660 x 1110 x 1470	2670 x 1130 x 1700
Guaranteed noise power Lwa [dBA]	111,4 ± 3,9	97
Acoustic pressure @7m Lpa [dBA]	82,7 ± 3,9	67,2 ± 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	FPT (Iveco)
Type	NEF45SM3
Made in	Italy
Engine power [kW]	73,3
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]	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 AMSL
Nominal Power [kVA]	80,0
IP protection	IP 23
No of bearing	single bearing
Coupling	direct
Technology	brushless
Short circuit maintaining capacity	270% 10s
Efficiency [%]	90,0
Insulation class	H
Total harmonic content THD [%]	<2
Reactance Xd'' [%]	8
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****OPTIONAL EQUIPMENT**

FPT (Iveco) NEF45SM3 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-50	✓	Power socket connection *	□
Coolant inlet outside of the canopy *	✓	Power sockets box SOM 104 *	□
Starting batteries 100 Ah	✓	Transfer switch controlled by generator controller	□
Battery charger	✓	Transfer switch with ATS controller	□
GCB Schneider NSX 160 3P + Mic.2.2	✓	GPRS communication card	□
GCB shunt release coil	✓	Ethernet card	□
Controller ComAp IL-AMF25	✓	RS 485, RS 232 card	□
Acoustic alarm	✓	Remote display	□
Emergency stop button	✓	Fuel inlet outside of the canopy with lock *	□
Silenced canopy made with Al.-Zn. *	✓	Drip space level sensor	□
Standard color 7024	✓	Fuel and retention pump	□
Fuel tank integrated with a frame with drip tray	✓	Alternative fuel tank size 720 l	□
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 5x35 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)	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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