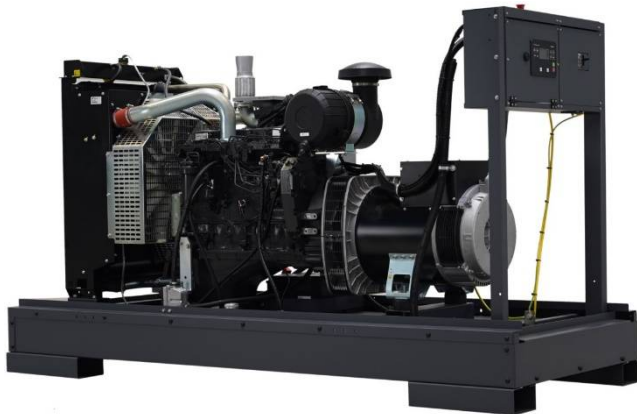


### MAIN FEATURES

Highest quality and reliability.	Wide range of standard and optional equipment.
ComAp IntelliLite AMF 25 controller.	Engine heater – ready to load just after start.
Ready to control MAINS – GENERATOR transfer switch.	Drip tray,
Configured for both manual and automatic mode (MRS + AMF).	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]	192,0 / 154,0
Prime power PRP [kVA] / [kW]	175,0 / 140,0
Prime current PRP [A]	252,0
Frequency [Hz]	50
Voltage [V]	400
Exhaust emission	stage I
Fuel type	Diesel (EN 590)
Fuel consumption - 50% load [l/h]	18,6
- 75% load [l/h]	27,9
- 100% load [l/h]	36,6
- 110% load [l/h]	42,2
Engine control voltage [V]	12
Standard fuel tank capacity [l]	400
Autonomy with 100% load [h]	10,3
Design	S3350T400

#### 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 180 I-ST1	FD 180 I-ST
Weight without fuel [kg]	1550	1980
Dimensions L x W x H [mm]	2940 x 1110 x 1640	3350 x 1160 x 1930
Guaranteed noise power Lwa [dBA]	115,7 ± 2,5	97
Acoustic pressure @7m Lpa [dBA]	85,4 ± 2,5	68,4 ± 1,7

**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	NEF67TM4
Made in	Italy
Engine power [kW]	149,7
Emission standard*	stage I
Rotation per minute [rpm]	1500
Engine governor	mechanical
Governor class**	G2
Displacement [l]	6,7
No of cylinder	6
Fuel system	direct injection
Electrical system [V]	12
Cooling system capacity [l]	25,5
Oil pan capacity [l]	17,2
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]	180,0
IP protection	IP 23
No of bearing	single bearing
Coupling	direct
Technology	brushless
Short circuit maintaining capacity	270% 10s
Efficiency [%]	93,4
Insulation class	H
Total harmonic content THD [%]	2,5
Reactance Xd'' [%]	12,8
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) NEF67TM4 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 2.3	□
Coolant Fuchs Maintain Fricofin LL-50	✓	Power Lock type power output *	□
Coolant inlet outside of the canopy *	✓	Power sockets box SOM 104*	□
Starting batteries 2x 100 Ah	✓	Transfer switch controlled by generator controller	□
Battery charger	✓	Transfer switch with ATS controller	□
GCB Schneider NSX 400 3P + Mic.2.3	✓	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 950 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 5x120 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)	101,6 mm
Exhaust pipe min diameter (max. 15 m, 4 bends)	114,3 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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