



# DPX-17551

Iveco 85 kVA - Silent Generator



## Main Features : FD80I-Q

- Electronic voltage regulation  $\pm 1\%$
- One phase voltage control
- Low disturbance level THD  $< 2,5\%$
- Alternator short circuit capacity  $300\% I_n 10s$
- Class H insulation
- Protection index IP23
- Performance class G2 (acc. ISO 8528-5)
- Ready to load just after start
- AMF and MRS functionality and protection
- Autonomy 16,7 h with 75 % load
- Compact design
- Forklift manouvable from the front and side wall

## General Data

|                                                       |                            |
|-------------------------------------------------------|----------------------------|
| <b>Maximum power ESP</b>                              | 85,0 kVA / 70,0 kW         |
| <b>Nominal power PRP</b>                              | 80,0 kVA / 64,0 kW         |
| <b>Nominal Current PRP</b>                            | 115,0 A                    |
| <b>Frequency</b>                                      | 50 Hz                      |
| <b>Voltage</b>                                        | 400 V                      |
| <b>Emission standard</b>                              | non-emission               |
| <b>Fuel</b>                                           | Diesel (EN 590)            |
| <b>Fuel tank capacity</b>                             | 260 l                      |
| <b>Fuel consumption @ 50% / 75% / 100% / 110% PRP</b> | 9,4 / 14 / 18,7 / 20,4 l/h |
| <b>Autonomy @ 75% / 100% load</b>                     | 16,7 / 12,5 h              |
| <b>Weight without fuel</b>                            | ~1330 kg                   |
| <b>Dimensions L x W x H</b>                           | 2365 x 1160 x 1470 mm      |
| <b>Guaranteed noise power <math>L_{wa}</math></b>     | 97 dBA                     |
| <b>Acoustic pressure @ 7m <math>L_{pa}</math></b>     | ~67 dBA                    |

## Main Components & Equipment

- FPT (Iveco) NEF45SM3 engine
- Linz PRO22S B/4 alternator
- Brushless alternator
- Electronic AVR HVR-11
- ComAp IL-AMF25 Controller
- Schneider NSX 160 3P + Mic.2.2 type generator circuit breaker
- GCB shunt release coil
- Linear automatic battery charger
- Engine heater
- Mechanical speed governor
- Fuel system direct injection
- Welded frame with 260 l fuel tank, spill containment and noise insulation
- Two fuel inlets
- Four lifting eyes
- Extended forklift skids for easy attachment to the ground

For details see page 3

## Definitions

### Nominal 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.

### Maximum 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

## Norms and Directives

- Machinery directive 2006/42/EC
- Low voltage directive 2014/35/EU
- EMC directive 2014/30/EU
- Noise directive 2000/14/EC
- ISO 8528-1/2018, ISO 8528-5/2022
- ISO 8528-13:2016
- IEC 60204-1

## Contact data



# Diesel Generator

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### Engine

|                                |                  |
|--------------------------------|------------------|
| <b>Manufacturer</b>            | FPT (Iveco)      |
| <b>Type</b>                    | NEF45SM3         |
| <b>Made in</b>                 | Italy            |
| <b>Engine power</b>            | 73,3 kW          |
| <b>Emission standard</b>       | non-emission     |
| <b>Rotation per minute</b>     | 1500 rpm         |
| <b>Engine governor</b>         | mechanical       |
| <b>Governor class</b>          | G2 (ISO 8528-5)  |
| <b>Displacement</b>            | 4,5 l            |
| <b>No of cylinder</b>          | 4                |
| <b>Fuel system</b>             | direct injection |
| <b>Electrical system</b>       | 12 V             |
| <b>Cooling system capacity</b> | 18,5 l           |
| <b>Oil pan capacity</b>        | 12,8 l           |
| <b>Fuel type</b>               | Diesel (EN 590)  |

### Alternator

|                                           |                      |
|-------------------------------------------|----------------------|
| <b>Manufacturer</b>                       | Linz                 |
| <b>Type</b>                               | PRO22S B/4           |
| <b>Made in</b>                            | Italy                |
| <b>Nominal Voltage</b>                    | 400 V                |
| <b>Nominal power factor (cos φ)</b>       | 0,8                  |
| <b>Ambient temperature, altitude</b>      | 40 °C, 1000 m a.s.l. |
| <b>Nominal Power</b>                      | 80,0 kVA             |
| <b>Protection index</b>                   | IP 23                |
| <b>No of bearing</b>                      | Single bearing       |
| <b>Coupling</b>                           | Direct               |
| <b>Technology</b>                         | Brushless            |
| <b>Short circuit maintaining capacity</b> | 300% 10s             |
| <b>Efficiency</b>                         | 90,0 %               |
| <b>Insulation class</b>                   | H                    |
| <b>Total harmonic content THD</b>         | <2,5 %               |
| <b>Reactance Xd"</b>                      | 10,1 %               |
| <b>Voltage regulator type</b>             | AVR HVR-11           |
| <b>Voltage measurement</b>                | 1 phase              |
| <b>Voltage accuracy</b>                   | +/- 1 %              |
| <b>AVR supply system</b>                  | Auxiliary winding    |

### Controller

- Controller type: ComAp IntelliLite AMF 25
- Support of Dual AMF/MRS applications
- Direct communication with EFI engines
- Total remote monitoring and control
- Intuitive operator interface, adjustable Main Screen
- Real time clock
- Comprehensive history log with up to 350 events
- 3 phase true RMS current and voltage measurement
- Both mains and generator voltage detection
- Active/Reactive Power and Power Factor per phase measurement
- Run Hours counter with source selector
- 3 maintenance timers (counting even under zero)
- Multipurpose flexible timers (also for rental)
- Battery voltage measurement
- Complete engine and alternator protection
- CAN modules support
- USB port on-board
- 2 slots for plug-in modules
- Plug-in module concept for more capabilities (RS232, RS485, Ethernet, GPRS, 4G/LTE, Modbus, SNMP, emails, SMS, I/Os)
- Cloud-based monitoring and control via WebSupervisor (optional module required)
- Geofencing and tracking via WebSupervisor (optional module required)
- Control and monitoring over SMS (GSM module required)
- 3 levels of password protection
- In-built PLC, complemented with a monitoring/debugging tool, for additional functionality, if required
- Spare inputs and outputs available by default: binary input – 1, binary output – 1, analogue input – 3,
- A version for low temperature is also available



# Diesel Generator

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### Standard equipment

- FPT (Iveco) NEF45SM3 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 Fuchs Maintain Fricofin LL-50
- Coolant inlet outside, on the top of the canopy
- Starting batteries 100 Ah
- Linear automatic battery charger
- Linz PRO22S B/4 alternator
- Electronic AVR HVR-11
- GCB Schneider NSX 160 3P + Mic.2.2
- GCB shunt release coil
- ComAp IL-AMF25 controller
- Acoustic alarm
- Emergency stop button
- Silenced canopy, RAL 7024
- Fuel tank integrated with a frame and spill containment
- Two fuel inlets inside the canopy
- Fuel level indicator
- Engine and alternator anti vibration mounts
- Exhaust silencer with compensator
- Forklift supports and lifting eyes

### Optional equipment

- Electronic engine speed governor
- Oil draining hand pump
- Oil pressure sensor
- Engine high temperature sensor
- Battery disconnecter
- 4P Schneider NSX Micrologic 2.2 GCB
- Power Lock type power output
- Power sockets box SOM 204
- Transfer switch controlled by generator controller
- Transfer switch with ATS controller
- ATS accessories for outdoor application
- GPRS communication card
- Ethernet card
- RS 485, RS 232 card
- Remote display
- Fuel inlet outside of the canopy with lock
- Generator spill containment level detector
- External, double wall fuel tank 1 000 – 10 000 l
- Fuel tank filling pump and shut-off valve

### Maintenance guidelines

|                                 |                                                         |
|---------------------------------|---------------------------------------------------------|
| <b>Fuel filters replacement</b> | 500 h / 1 year                                          |
| <b>Oil replacement</b>          | After first 100h, then every 500 h / 1 year             |
| <b>Oil filters replacement</b>  | After first 100h, then every 500 h / 1 year             |
| <b>Coolant replacement</b>      | 1000 h / 2 years                                        |
| <b>Air filter replacement</b>   | 500 h                                                   |
| <b>Battery replacement</b>      | 2 years                                                 |
| <b>Electrical installation</b>  | According to local requirements, at least once per year |

### Installation guidelines

|                                                             |                                |
|-------------------------------------------------------------|--------------------------------|
| <b>Power terminal</b>                                       | GCB terminal                   |
| <b>Recommended cable for up to 30m power cable way</b>      | Flexible 5x35 mm <sup>2</sup>  |
| <b>Recommended cable for do 30m generator heater supply</b> | Flexible 3x2,5 mm <sup>2</sup> |
| <b>Exhaust pipe min diameter (max. 7 m, 4 bends)</b>        | 88,9 mm                        |
| <b>Exhaust pipe min diameter (max. 15 m, 4 bends)</b>       | 88,9 mm                        |

\*For additional cable connection with ATS see ATS wiring diagram

### Warranty

|                                        |                                    |
|----------------------------------------|------------------------------------|
| <b>Continuous operation generators</b> | 12 months up to 1000 working hours |
|----------------------------------------|------------------------------------|