

**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.                                  |
| Schneider NS type GCB.                                     |  |



The presented image is for illustration purpose only.

**GENERAL DATA**

|                                   |                    |
|-----------------------------------|--------------------|
| Code                              | F.0600.DAP.G       |
| Standby power E.S.P. [kVA] / [kW] | 632,0 / 506,0      |
| Prime power P.R.P. [kVA] / [kW]   | 575,0 / 460,0      |
| Prime current P.R.P [A]           | 830,0              |
| Frequency [Hz]                    | 50                 |
| Voltage [V]                       | 400                |
| Exhaust emission                  | non-emission       |
| Fuel type                         | Diesel (EN 590)    |
| Fuel consumption - 50% load [l/h] | 64,8               |
| - 75% load [l/h]                  | 94,2               |
| - 100% load [l/h]                 | 123,6              |
| - 110% load [l/h]                 | 135,4              |
| Standard fuel tank capacity [l]   | 900                |
| Autonomy with 100% load [h]       | 7,3                |
| Engine control voltage [V]        | 24                 |
| Weight without fuel [kg]          | ~5280              |
| Dimensions L x W x H [mm]         | 4800 x 1750 x 2631 |
| Guaranteed noise power Lwa [dBA]  | 102                |
| Acoustic pressure Lpa (7m) [dBA]  | 69,6 ± 2           |

**Nominal power P.R.P.:**

Prime power available in variable load application in accordance with ISO 8528, 10% overload capacity is available for a period of 1h within a 12-hour period of operation, but not more than 25 hours per year. Average power consumption should not exceed 70% PRP for each 24 hours of work. Limited to 500h of operation per year with 100% P.R.P power consumption.

**Stand-by power E.S.P.:**

Standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload allowed, average power consumption should not exceed 70% ESP. Limited to 200h of operation per year including 25 hours with ESP.

**Remark:**

Ratings represent the genset performance capabilities to standard conditions specified in ISO 8528-1

**Norms and directives:**

- Machinery directive 2006/42/EC
- Low voltage directive 2014/35/EC
- EC directive 2014/30/EC
- Noise directive 2000/14/EC
- Emission directive 97/68/EC
- ISO 8528-1:2018, ISO 8528-5:2018
- ISO 8528-13:2016
- EN 60204-1

### 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

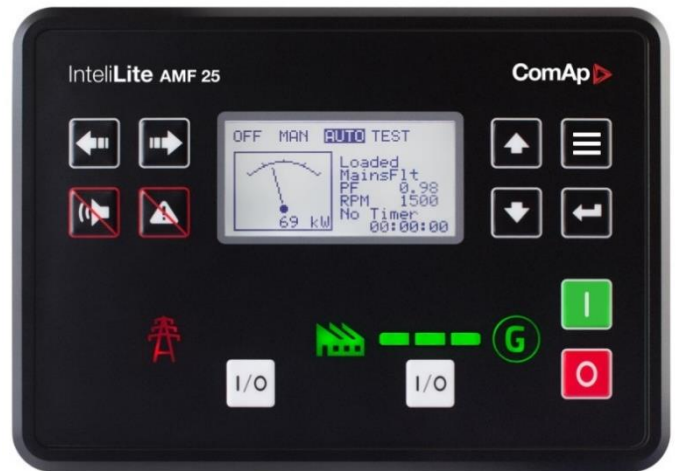
Cloud-based monitoring and control via WebSupervisor

Active SMS or e-mails (module required)

Geofencing and tracking via WebSupervisor

Operating temperature -20 + 70°C

IP65 operator interface protection



### ENGINE

|                             |                  |
|-----------------------------|------------------|
| Brand                       | Doosan           |
| Type                        | DP180LA          |
| Made in                     | South Korea      |
| Engine power [kW]           | 486,0            |
| Emission standard*          | non-emission     |
| Rotation per minute [rpm]   | 1500             |
| Engine governor             | electronic       |
| Governor class**            | G3               |
| Displacement [l]            | 18,3             |
| No of cylinder              | 10               |
| Fuel system                 | direct injection |
| Electrical system [V]       | 24               |
| Cooling system capacity [l] | 91,0             |
| Oil pan capacity [l]        | 34,0             |
| 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]                | 600,0                |
| IP protection                      | IP 23                |
| No of bearing                      | single bearing       |
| Coupling                           | direct               |
| Technology                         | brushless            |
| Short circuit maintaining capacity | 270% 10s             |
| Efficiency [%]                     | 94,6                 |
| Insulation class                   | H                    |
| Total harmonic content THD [%]     | 1,5                  |
| Reactance Xd'' [%]                 | 14                   |
| 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 8528-5:2018



# FOCUSSED ON GENERATORS ONLY

## Power Generator FDG 600 D

### STANDARD EQUIPMENT

|  |   |
|--|---|
| Doosan DP180LA engine                            | ✓ |
| Electronic engine speed governor                 | ✓ |
| Oil low pressure switch                          | ✓ |
| Oil pressure sensor                              | ✓ |
| Engine high temperature switch                   | ✓ |
| Engine high temperature sensor                   | ✓ |
| Engine preheating with thermostat                | ✓ |
| Engine oil Titan Cargo 15W40                     | ✓ |
| Fuel filter with water separator                 | ✓ |
| Coolant Fuchs Maintain Fricofin HDD Premix       | ✓ |
| Coolant inlet outside of the canopy              | ✓ |
| Starting batteries 2x180 Ah                      | ✓ |
| Battery charger                                  | ✓ |
| GCB Schneider NS1000 3P +Micrologic 2.0          | ✓ |
| GCB shunt release coil                           | ✓ |
| Bar connection                                   | ✓ |
| Controller ComAp IntelliLite AMF 25              | ✓ |
| Acoustic alarm                                   | ✓ |
| Emergency stop button                            | ✓ |
| Silenced canopy made with Al.-Zn.                | ✓ |
| Standard color RAL 7032                          | ✓ |
| Fuel tank integrated with a frame with drip tray | ✓ |
| Welded frame with fuel tank                      | ✓ |
| Fuel inlet outside of the canopy with lock       | ✓ |
| Fuel level measurement                           | ✓ |
| Exhaust compensator and silencer                 | ✓ |
| Engine and alternator vibro isolators            | ✓ |
| Transportation brackets                          | ✓ |

### OPTIONAL EQUIPMENT

|  |   |
|--|---|
| Oil draining hand pump                             | ✓ |
| Battery disconnection switch                       | ✓ |
| GCB 4P Schneider NS Micrologic 2.0                 | ✓ |
| Power Lock type power output                       | ✓ |
| Power socket box                                   | ✓ |
| Transfer switch controlled by generator controller | ✓ |
| Transfer switch with ATS controller                | ✓ |
| GPRS communication card                            | ✓ |
| Ethernet card                                      | ✓ |
| RS 485, RS 232 card                                | ✓ |
| Remote display                                     | ✓ |
| Drip space level sensor                            | ✓ |
| Fuel and retention pump                            | ✓ |
| Non-standard fuel tank size                        | ✓ |
| External fuel tank 1 000 – 10 000 l                | ✓ |
| 3-way valve for external fuel tank connection      | ✓ |
| Fuel tank filling pump and shut-off valve          | ✓ |
| Non-standard canopy color (RAL palette)            | ✓ |

**FOCUSED ON GENERATORS ONLY****Power Generator FDG 600 D****INSTALLATION GUIDELINES**

|  |                                  |
|--|----------------------------------|
| Power terminal                                       | Busbar                           |
| Recommended cable for up to 30m power cable way      | Flexible 2x5x240 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)  | 2x114,3 mm |
| Exhaust pipe min diameter (max. 15 m, 4 bends) | 2x133 mm   |

**MAINTENANCE GUIDELINES**

|                                     |   |
|-------------------------------------|---|
| Fuel filters replacement            | 200 h / 1 year  |
| Oil replacement                     | After first 50h, then every 200 h / 1 year              |
| Oil filters replacement             | After first 50h, then every 200 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 |
|----------------------------|------------------------------------|

Wersja: 01.2021

Datasheet could be changed without notification

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