

**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.

GENERAL DATA

Standby power ESP. [kVA] / [kW]	818,0 / 655,0
Prime power PRP. [kVA] / [kW]	744,0 / 595,0
Prime current PRP [A]	1074,0
Frequency [Hz]	50
Voltage [V]	400
Exhaust emission	non-emission
Fuel type	Diesel (EN 590)
Fuel consumption - 50% load [l/h]	78
- 75% load [l/h]	117
- 100% load [l/h]	159
- 110% load [l/h]	170
Engine control voltage [V]	24
Standard fuel tank capacity [l]	
Autonomy with 100% load [h]	

Prime Power PRP:

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 700% PRP for each 24 hours of operation. Limited to 500h of operation per year with 100% P.R.P power consumption.

Standby power ESP:

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.

Remarks:

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/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	-	-
Weight without fuel [kg]	-	-
Dimensions L x W x H [mm]	-	-
Guaranteed noise power L _{wa} [dBA]	-	-
Acoustic pressure @7m L _{pa} [dBA]	-	-

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	DP222LC
Made in	South Korea
Engine power [kW]	633,0
Emission standard*	non-emission
Rotation per minute [rpm]	1500
Engine governor	electronic
Governor class**	G2
Displacement [l]	21,9
No of cylinder	12
Fuel system	direct injection
Electrical system [V]	24
Cooling system capacity [l]	114,0
Oil pan capacity [l]	40,0
Fuel type	Diesel (EN 590)

ALTERNATOR

Nominal Voltage [V]	400
Nominal power factor (cos phi)	0,8
Ambient temperature, altitude	40 °C, 1000m n.p.m.
Nominal Power [kVA]	820,0
IP protection	IP 23
No of bearing	single bearing
Coupling	direct
Technology	brushless
Short circuit maintaining capacity	270% 10s
Efficiency [%]	94,0
Insulation class	H
Total harmonic content THD [%]	3,5
Reactance Xd'' [%]	13,2
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



FOCUSSED ON GENERATORS ONLY

Power Generator FD 820 D draft

STANDARD EQUIPMENT

Doosan DP222C 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 50 Premix	✓
Coolant inlet outside of the canopy *	✓
Starting batteries 2x180 Ah	✓
Battery charger	✓
GCB Schneider NS1600 3P +Micrologic 2.0	✓
GCB shunt release coil	✓
Bar connection	✓
Controller ComAp IL-AMF25	✓
Acoustic alarm	✓
Emergency stop button	✓
Silenced canopy made with Al.-Zn. *	✓
Standard color	✓
Fuel inlet inside, protected by canopy locked doors *	✓
Fuel level measurement	✓
Engine and alternator vibro isolators	✓
Exhaust compensator and silencer	✓
Transportation brackets	✓

OPTIONAL EQUIPMENT

Battery disconnection switch	□
GCB 4P Schneider NS Micrologic 2.0	□
Power sockets box *	□
Transfer switch controlled by generator controller	□
Transfer switch with ATS controller	□
GPRS communication card	□
Ethernet card	□
RS 485, RS 232 card	□
Remote display	□
Fuel inlet outside of the canopy with lock *	□
Drip space level sensor	□
Fuel and retention pump	□
External fuel tank 1 000 – 10 000 l	□
Fuel tank filling pump and shut-off valve	□

* Applies only for canopied version

INSTALLATION GUIDELINES

Power terminal	Busbar
Recommended cable for up to 30m power cable way	Flexible 3x5x185 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)	2x133 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 operation generators	12 months up to 1000 working hours
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Datasheet could be changed without notification

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