

MAIN FEATURES

Highest quality and reliability. ComAp IL-NT AMF25 controller. Ready to control MAINS – GENERATOR transfer switch. Configured for both manual and automatic mode (MRS + AMF).	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.
Wide range of remote communications options. Schneider NS type GCB.	Brushless alternator.



The presented image is for illustration purpose only.

GENERAL DATA

Code	F.0455.DA.G
Standby power E.S.P. [kVA] / [kW]	501,0 / 400,0
Prime power P.R.P. [kVA] / [kW]	455,0 / 364,0
Prime current P.R.P [A]	657,0
Frequency [Hz]	50
Voltage [V]	400
Exhaust emission	non-emission
Fuel type	Diesel (EN 590)
Fuel consumption - 50% load [l/h]	47,2
- 75% load [l/h]	70,3
- 100% load [l/h]	96,1
- 110% load [l/h]	107,1
Standard fuel tank capacity [l]	870
Autonomy with 100% load [h]	8,9
Engine control voltage [V]	24
Weight without fuel [kg]	~4360
Dimensions L x W x H [mm]	4500 x 1750 x 2631
Guaranteed noise power Lwa [dBA]	98
Acoustic pressure Lpa (7m) [dBA]	69 ± 1,9

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 8528-1:2005, ISO 8528-5:2013
- ISO 8528-13:2016
- EN 60204-1

STANDARD CONTROLLER

Controller type: AMF 25
Easy to operate, intuitive graphical interface
Real time clock with battery supply
AMF function available
Flexible event based history with up to 119 events
3 Phase generator current measurement
Generator and Mains phase voltage measurement
Active/reactive power measurement
Active and reactive energy counter
Running hours counter
Battery charging alternator circuit connection
Fuel level measurement
Generator protection (over/under frequency, voltage, overcurrent)
Communication with ECU supporting CAN J1939 standard
Communication interface RS 485 and RS 232 supporting Modbus RTU (IL-NT RS232-485 module required)
GSM modem / wireless internet (IL-NT GPRS module required)
Internet/Ethernet communication (IB-Lite module required)
InteliMonitor software for single gen-set view
WebSupervisor software for Android mobile devices or PC's for fleet management
Active SMS or e-mail (IL-NT GPRS or IB-Lite module required)


ENGINE

Brand	Doosan
Type	DP158LC
Made in	South Korea
Engine power [kW]	392,0
Emission standard*	non-emission
Rotation per minute [rpm]	1500
Engine governor	electronic
Governor class**	G2
Displacement [l]	14,6
No of cylinder	8
Fuel system	direct injection
Electrical system [V]	24
Cooling system capacity [l]	79,0
Oil pan capacity [l]	22,0
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]	455,0
IP protection	IP 23
No of bearing	single bearing
Coupling	direct
Technology	brushless
Short circuit maintaining capacity	270% 10s
Efficiency [%]	94,2
Insulation class	H
Total harmonic content THD [%]	1,5
Reactance Xd'' [%]	13,9
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 8528-5:2013

**FOCUSSED ON GENERATORS ONLY****Power Generator FDG 455 D****STANDARD EQUIPMENT****OPTIONAL EQUIPMENT**

Doosan DP158LC engine	✓	Oil draining hand pump	✓
Electronic engine speed governor	✓	Battery disconnection switch	✓
Oil low pressure switch	✓	GCB 4P Schneider NS Micrologic 2.0	✓
Oil pressure sensor	✓	Power Lock type power output	✓
Engine high temperature switch	✓	Power socket box	✓
Engine high temperature sensor	✓	Transfer switch controlled by generator controller	✓
Engine preheating with thermostat	✓	Transfer switch with ATS controller	✓
Engine oil Titan Cargo 15W40	✓	GPRS communication card	✓
Fuel filter with water separator	✓	Ethernet card	✓
Coolant Fuchs Maintain Fricofin HDD Premix	✓	RS 485, RS 232 card	✓
Coolant inlet outside of the canopy	✓	Remote display	✓
Starting batteries 2x180 Ah	✓	Drip space level sensor	✓
Battery charger	✓	Fuel and retention pump	✓
GCB Schneider NS800 3P +Micrologic 2.0	✓	Non-standard fuel tank size	✓
GCB shunt release coil	✓	External fuel tank 1 000 – 10 000 l	✓
Bar connection	✓	3-way valve for external fuel tank connection	✓
Controller ComAp IL-NT-AMF25	✓	Fuel tank filling pump and shut-off valve	✓
Controller switch	✓	Non-standard canopy color (RAL palette)	✓
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	✓		

**INSTALLATION GUIDELINES**

Power terminal	Busbar
Recommended cable for up to 30m power cable way	Flexible 2x5x185 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)	2x114,3 mm
Exhaust pipe min diameter (max. 15 m, 4 bends)	2x114,3 mm

MAINTENANCE GUIDELINES

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