MAIN FEATURES

Highest quality and reliability.	Wide range of standard and optional equipment.
ComAp IL-NT AMF25 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

Code	DPX-17649
Standby power E.S.P. [kVA] / [kW]	13,5 / 10,8
Prime power P.R.P. [kVA] / [kW]	12,3 / 9,8
Prime current P.R.P [A]	17,8
Frequency [Hz]	50
Voltage [V]	400
Exhaust emission	non-emission
Fuel type	Diesel (EN 590)
Fuel consumption - 50% load [l/h]	2,0
- 75% load [l/h]	2,8
- 100% load [l/h]	3,7
- 110% load [l/h]	4,1
Standard fuel tank capacity [l]	115
Autonomy with 100% load [h]	28
Engine control voltage [V]	12
Weight without fuel [kg]	~650
Dimensions L x W x H [mm]	1904 x 1005 x 1415
Guaranteed noise power Lwa [dBA]	87
Acoustic pressure Lpa (7m) [dBA]	56 ± 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 1 hour within a 12-hour period of operation. Average power consumption should not exceed 80% PRP for each 24-hour period of operation.

Stand-by power E.S.P.:

Emergency standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload allowed, limited to 500 hours of operation per year. Continous operation limited to 300h..

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	Perkins
Type	403A-15G1
Made in	Great Britain
Engine power [kW]	12,0
Emission standard*	non-emission
Rotation per minute [rpm]	1500
Engine governor	mechanical
Governor class**	G2
Displacement [l]	1,5
No of cylinder	3
Fuel system	direct injection
Electrical system [V]	12
Cooling system capacity [l]	6,0
Oil pan capacity [l]	6,0
Fuel type	Diesel (EN 590)

ALTERNATOR

Nominal Voltage [V]	400
Nominal power factor (cos phi)	0,8
Ambient temperature, altitude	40 ºC, 1000m a.m.s.l
Nominal Power [kVA]	12,5
IP protection	IP 23
No of bearing	single bearing
Coupling	direct
Technology	brushless
Short circuit maintaining capacity	270% 10s
Efficiency [%]	82,1
Insulation class	H
Total harmonic content THD [%]	<3,5
Reactance Xd'' [%]	10,7
Voltage regulator type	DVR, digital
Voltage measurement	3 phases
Voltage accuracy [%]	+/- 1
AVR supply system	auxiliary winding
Made in	EU

***** According directive 97/68/EC non road mobile machinery engine emission.
****** According ISO 8528-5:2013

STANDARD EQUIPMENT

Perkins 403A-15G1 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 Fricofin LL-35	✓
Coolant inlet outside of the canopy	✓
Starting batteries 75 Ah	✓
Battery charger	✓
GCB Schneider-Z20/4	✓
GCB shunt release coil	✓
Controller ComAp IL-NT-AMF25	✓
Controller switch	✓
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 pressure sensor	✓
Engine temperature sensor	✓
Oil draining hand pump	✓
Battery disconnection switch	✓
Power socket connection	✓
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)	✓
Trailer with straight drawbar	✓

INSTALLATION GUIDELINES

Power terminal	GCB terminal
Recommended cable for up to 30m power cable way	Flexible 5x6 mm^2
Recommended cable for do 30m generator heater supply	Flexible 3x2,5 mm^2
*For additional cable connection with ATS see ATS wiring diagram	
Exhaust pipe min diameter (max. 7 m, 4 bends)	48,3 mm
Exhaust pipe min diameter (max. 15 m, 4 bends)	60,3 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 work generators	12 months up to 1000 working hours