

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.



The presented image is for illustration purpose only.

GENERAL DATA

Code	F.0032.MA.G	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 70% PRP for each 24h of operation.
Standby power E.S.P. [kVA] / [kW]	33,0 / 26,4	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 200 hours of operation per year, average power consumption should not exceed 70% ESP for each 24.
Prime power P.R.P. [kVA] / [kW]	30,0 / 24,0	Remark:	Ratings represent the genset performance capabilities to standard conditions specified in ISO 8528-1
Prime current P.R.P [A]	43,3	Norms and directives:	<ul style="list-style-type: none"> • 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
Frequency [Hz]	50		
Voltage [V]	400		
Exhaust emission	non-emission		
Fuel type	Diesel (EN 590)		
Fuel consumption - 50% load [l/h]	4,5		
- 75% load [l/h]	6,7		
- 100% load [l/h]	8,8		
- 110% load [l/h]	9,6		
Standard fuel tank capacity [l]	160		
Autonomy with 100% load [h]	18,2		
Engine control voltage [V]	12		
Weight without fuel [kg]	~780		
Dimensions L x W x H [mm]	1964 x 974 x 1270		
Guaranteed noise power Lwa [dBA]	~95		
Acoustic pressure Lpa (7m) [dBA]	~64		

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	Mitsubishi
Type	S4S-DT61SD
Made in	Japan
Engine power [kW]	27,6
Emission standard*	non-emission
Rotation per minute [rpm]	1500
Engine governor	mechanical
Governor class**	G2
Displacement [l]	3,3
No of cylinder	4
Fuel system	
Electrical system [V]	12
Cooling system capacity [l]	5,5
Oil pan capacity [l]	10,0
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]	32,0
IP protection	IP 23
No of bearing	single bearing
Coupling	direct
Technology	brushless
Short circuit maintaining capacity	brak
Efficiency [%]	87,6
Insulation class	H
Total harmonic content THD [%]	<2
Reactance Xd'' [%]	8,1
Voltage regulator type	DVR ditigal
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 32 M draft****STANDARD EQUIPMENT****OPTIONAL EQUIPMENT**

Mitsubishi S4S-DT61SD engine	✓	Oil pressure sensor	✓
Glow plugs	✓	Engine temperature sensor	✓
Oil low pressure switch	✓	Oil draining hand pump	✓
Engine high temperature switch	✓	Fuel filter with water separator	✓
Engine preheating with thermostat	✓	Battery disconnection switch	✓
Engine oil Titan Cargo 15W40	✓	Power socket connection	✓
Coolant Fuchs Maintain Fricofin LL-35	✓	Power socket box	✓
Coolant inlet outside of the canopy	✓	Transfer switch controlled by generator controller	✓
Coolant draining valve	✓	Transfer switch with ATS controller	✓
Starting batteries 100 Ah	✓	GPRS communication card	✓
Battery charger	✓	Ethernet card	✓
GCB Schneider Z50/4	✓	RS 485, RS 232 card	✓
GCB shunt release coil	✓	Remote display	✓
Controller ComAp IL-NT-AMF25	✓	Drip space level sensor	✓
Controller switch	✓	Fuel and retention pump	✓
Acoustic alarm	✓	Non-standard fuel tank size	✓
Emergency stop button	✓	External fuel tank 1 000 – 10 000 l	✓
Silenced canopy made with Al.-Zn.	✓	3-way valve for external fuel tank connection	✓
Standard color RAL 7032	✓	Fuel tank filling pump and shut-off valve	✓
Fuel tank integrated with a frame with drip tray	✓	Non-standard canopy color (RAL palette)	✓
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	✓		



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Power Generator FDG 32 M draft

INSTALLATION GUIDELINES

Power terminal	GCB terminal
Recommended cable for up to 30m power cable way	Flexible 5x10 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)	48,3 mm
Exhaust pipe min diameter (max. 15 m, 4 bends)	60,3 mm

MAINTENANCE GUIDELINES

Fuel filters replacement	250 h / 1 year
Oil replacement	After first 50h, then every 250 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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