

## Fogo FDT 1300 SS (1 040 кВт)

#### **MAIN FEATURES**

Innovative generating set consisting of two synchronized generator, arranged in one common canopy

Easy synchronization with other generators, and optionally with the mains

Possibility of single generator work in case of low power consumption, maintenance or breakdown of one machine

Alternating work mode provides even wear out of each machine

Total power output accessible at one connection point

Canopy made of Al. Zn. coated steel plate

Easy service access

Various fuel tank size available on request

Various standard and optional equipment



#### **GENERAL DATA**

Model	FDT 1300 SS
Standby power E.S.P. [kVA] / [kW]	1430,0 / 1144,0
Prime power P.R.P. [kVA] / [kW]	1300,0 / 1040,0
Prime current P.R.P [A]	1876,0
Frequency [Hz]	50
Voltage [V]	400
Exhaust emission	fuel optimized
Fuel type	Diesel (EN 590)
Fuel consumption - 50% load [l/h]	135,8
- 75% load [l/h]	196,0
- 100% load [l/h]	249,4
- 110% load [l/h]	286,8
Standard fuel tank capacity [1]	1990
Autonomy with 100% load [h]	8,0
Engine control voltage [V]	24
Weight without fuel [kg]	≈ 12 500
Dimensions L x W x H [mm]	8970 x 1970 x 2520
Guaranteed noise power Lwa [dBA]	~108
Acoustic pressure Lpa (dla 7m) [dBA]	~77,0

#### 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% P.R.P for each 24h of work.

#### 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 operation hours per year.Max mean load factor of 70% of rated power over 24h of operation

#### Remark:

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

#### Norms and directives:

- Machinery directive 2006/42/WE
- Low voltage directive 2006/95/WE
- EC directive 2004/108/WE
- Noise directive 2000/14/WE
- Emission directive 97/68/WE
- ISO 8528-1/2005, PN-ISO 8528-5/2005
- PN-EN 12601
- PN-EN 60204-1



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#### STANDARD CONTROLLER

Controller type: IL-NT-MINT

Easy to operate, intuitive graphical interface

Automatic synchronizing (multiply in island mode)

Parallel to Mains function (with MainsCompact)

Runing Hours equalization

Active and Reactive Load Sharing

Load demand start / stop

Event based history with up to 200 records

Generator current 3 phase measurement

Generator and bus 3 phase voltage measurement

Active/Reactive Power and Power Factor per phase measurement

Generator Active and Reactive Energy counter

Battery charging alternator circuit connection

Fuel level measurement

Real-time clock

Generator protection (over/under frequency, voltage, overcurrent)

Communication with ECU supporting CAN J1939 standard

USB communication interface (IL-NT-S-USB module required)

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)



WebSupervisor software for Android mobile devices or PC's for fleet management

InteliMonitor software for single gen-set view

Active SMS or e-mail (IL-NT GPRS or IB-Lite module required)

#### **ENGINE**

Brand	Scania
Type	2xDC16 078A 02-42
Made in	Sweden
Engine power [kW]	2x578
Emission standard*	fuel optimized
Rotation per minute [rpm]	1500
Engine governor	electronic
Governor class**	G3
Displacement [l]	16,4
No of cylinder	8
Fuel system	extra high pressure XPI
Electrical system [V]	24
Cooling system capacity [1]	68,0
Oil pan capacity [1]	48,0
Fuel type	Diesel (EN 590)
* According directive 07/69/WE non-mod mobile machiness anging	

According directive 97/68/WE non road mobile machinery engine emission.

#### **ALTERNATOR**

Brand	Sincro
Type	2xSK355LM
Made in	Croatia
Power (40 °C, 1000m a.m.s.l.) [kVA]	2x650,0
Stand by power (27 °C, 1000m a.m.s.l) [kVA]	2x709,0
Efficiency [%]	94,6
Voltage regulator type	Digital AVR
Voltage accuracy [%]	+/- 0,25
IP protection	IP 23
Insulation class	Н
Total harmonic content THD [%]	< 2
Reactance Xd'' [%]	9,8

<sup>\*\*</sup> According PN-ISO 8528-5/2005



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## **STANDARD EQUIPMENT**

STANDARD EQUIPMENT	
Scania DC16 078A 02-42 engines	✓
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 Shell Rimula R4L	✓
Oil draining hand pump	✓
Fuel filter with water separator	✓
Coolant Anti Freeze	✓
Coolant inlet outside of the canopy	✓
Starting batteries 4x180 Ah	✓
Battery charger	✓
Battery disconnection switch	✓
Sincro SK355LM alternators	✓
Digital 3 phase AVR	✓
3 pole GCB Schneider NS1000 Micrologic 2.0x 2	✓
GCB undervoltage release coil	✓
Bar connection	✓
Controller IC-NT-MINT	✓
Controller switch	✓
Acoustic alarm	✓
Emergency stop button	✓
Silenced canopy made with AlZn.	✓
Standard color RAL 7032	✓
Frame with fuel tank	✓
Fuel inlet inside the canopy protected by locked door	✓
Fuel level measurement	✓
Exhaust compensator and silencer	✓
Engine and alternator vibro isolators	✓



## **Power Generator FDT 1300 SS draft**

### **INSTALLATION GUIDELINES**

Power terminal	Busbar
Recommended cable for up to 30m power cable way	Flexible – to be calculated based on local conditions and regulations
Recommended cable for do 30m generator heater supply	Flexible 3 x 2,5mm <sup>2</sup>
*For additional cabale connection with FOGO ATS see ATS wiring diagram	
Exhaust pipe min diameter (max. 7 m, 4 bends)	
Exhaust pipe min diameter (max. 15 m, 4 bends)	

#### **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**

Back-up power generators	60 months up to 1000 working hours, under condition of required maintenance according to the warranty conditions
Continuous work generators	12 months up to 1000 working hours