

**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 800 SS
Standby power E.S.P. [kVA] / [kW]	880,0 / 704,0
Prime power P.R.P. [kVA] / [kW]	800,0 / 640,0
Prime current P.R.P [A]	1155,0
Frequency [Hz]	50
Voltage [V]	400
Exhaust emission	fuel optimized
Fuel type	Diesel (EN 590)
Fuel consumption - 50% load [l/h]	80,4
- 75% load [l/h]	117,0
- 100% load [l/h]	153,8
- 110% load [l/h]	171,6
Standard fuel tank capacity [l]	1 990
Autonomy with 100% load [h]	12,9
Engine control voltage [V]	24
Weight without fuel [kg]	≈9 840
Dimensions L x W x H [mm]	8970 x 1970 x 2520
Guaranteed noise power Lwa [dBA]	≈105
Acoustic pressure Lpa (dla 7m) [dBA]	≈74,0

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



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

ALTERNATOR

Brand	Scania
Type	2xDC13 072A 02-12
Made in	Sweden
Engine power [kW]	2x355
Emission standard*	fuel optimized
Rotation per minute [rpm]	1500
Engine governor	electronic
Governor class**	G3
Displacement [l]	12,7
No of cylinder	6
Fuel system	unit injectors, PDE
Electrical system [V]	24
Cooling system capacity [l]	38,0
Oil pan capacity [l]	36,0
Fuel type	Diesel (EN 590)

Brand	Sincro
Type	2xSK315SM
Made in	Croatia
Power (40 °C, 1000m a.m.s.l.) [kVA]	2x400,0
Stand by power (27 °C, 1000m a.m.s.l) [kVA]	2x436,0
Efficiency [%]	93,4
Voltage regulator type	Digital AVR
Voltage accuracy [%]	+/- 0,25
IP protection	IP 23
Insulation class	H
Total harmonic content THD [%]	< 2
Reactance Xd'' [%]	15,1

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

** According PN-ISO 8528-5/2005



FOCUSED ON GENERATORS ONLY

Power Generator FDT 800 SS

STANDARD EQUIPMENT

Scania DC13 072A 02-12 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	✓
Fuel filter with water separator	✓
Coolant Anti Freeze	✓
Coolant inlet outside of the canopy	✓
Starting batteries 2x180Ah	✓
Battery charger	✓
Sincro SK315SM alternators	✓
Digital 3 phase AVR	✓
3 pole GCB Schneider NSX630 Micrologic 2.3 x 2	✓
GCB undervoltage release coil	✓
Bar connection	✓
Controller ComAp IC-NT Mint	✓
Controller switch	✓
Acoustic alarm	✓
Emergency stop button	✓
Silenced canopy made with Al.-Zn.	✓
Standard color RAL 7032	✓
Frame with fuel tank	✓
Fuel inlet inside, protected by canopy locked doors	✓
Fuel level measurement	✓
Exhaust compensator and silencer	✓
Engine and alternator vibro isolators	✓

**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 ²

*For additional cabale connection with FOGO ATS see ATS wiring diagram

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