

Power Generator FD 600 S-F

Code: F.0600.SA-C4950T999-01

Picture for reference only

Main Features

- Digital voltage regulation +/-0,25 %
- Three phase voltage control
- Low disturbance level THD <1,5%
- Alternator short circuit capacity 270 % In (optional 300 %)
- Class H insulation
- Protection index IP23

General Data

Serieral Bata	
Maximum power ESP	660,0 kVA / 528,0 kW
Nominal power PRP	600,0 kVA / 480,0 kW
Nominal Current PRP	866,0 A
Frequency	50 Hz
Voltage	400 V
Emission standard	fuel optimized
Fuel	Diesel (EN 590)
Fuel tank capacity	999
Fuel consumption @ 50% / 75% 100% /110% PRP	61,6 / 88,5 /119,6 / 134,6 l/h
Autonomy @ 75% / 100% load	10,1/7,5 h
Weight without fuel	~3600 kg
Dimensions D x S x W	3355 x 1786 x 2180mm
Measured noise power L_{wa}	~127 dBA
Acoustic pressure @7mL _{Pa}	~97 dBA

Definitions

Nominal Power PRP:

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 24-hour period of operation.

Maximum power ESP:

Emergency standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload allowed, limited to 200h of operation per year. Max mean load factor of 70% of rated power over 24-hour period of operation.

• Performance class G3 (acc. ISO 8528-5)

- Ready to load just after start
- AMF and MRS functionality and protection
- Autonomy 10,1 h with 75 % load
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Main Components & Equipment

- Scania DC16 093A 02-53 engine
- Leroy Sommer TAL 0473 E alternator
- Brushless alternator
- Digital AVR
- ComAp IL-AMF25 Controller
- Schneider NS type generator circuit breaker
- GCB shunt release coil
- Linear automatic battery charger
- Engine heater
- Electronic speed governor
- Fuel system unit injectors, PDE
- Welded frame with 999 I fuel tank
- Two fuel inlets
- Extended forklift skids for easy attachment to the ground

For details see page 3

Norms and Directives

- Machinery directive 2006/42/EC
- Low voltage directive 2014/35/EU
- EMC directive 2014/30/EU
- ISO 8528-1/2018, ISO 8528-5/2022
- ISO 8528-13:2016
- IEC 60204-1

Contact data

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Engine		Alternator	
Manufacturer	Scania	Manufacturer	Leroy Sommer
Туре	DC16 093A 02-53	Туре	TAL 0473 E
Made in	Sweden	Made in	Czech Republic
Engine power	516,0 kW	Nominal Voltage	400 V
Emission standard	fuel optimized	Nominal power factor (cos φ)	0,8
Rotation per minute	1500 rpm	Ambient temperature, altitude	40 °C, 1000 m a.s.l.
Engine governor	electronic	Nominal Power	600,0 kVA
Governor class	G3 (ISO 8528-5)	Protection index	IP 23
Displacement	16,4 l	No of bearing	Single bearing
No of cylinder	8	Coupling	Direct
Fuel system	unit injectors, PDE	Technology	Brushless
Electrical system	24 V	Short circuit maintaining capacity	270% 10s
Cooling system capacity	68,0 I	Efficiency	94,9 %
Oil pan capacity	48,0 l	Insulation class	Н
Fuel type	Diesel (EN 590)	Total harmonic content THD	<1,5 %
		Reactance Xd"	10,3 %

Controller

- Controller type: ComAp InteliLite AMF 25
- Support of Dual AMF/MRS applications
- Direct communication with EFI engines
- Total remote monitoring and control
- Intuitive operator interface, adjustable Main Screen
- Real time clock
- Comprehensive history log with up to 350 events
- 3 phase true RMS current and voltage measurement
- Both mains and generator voltage detection
- Active/Reactive Power and Power Factor per phase measurement
- Run Hours counter with source selector
- 3 maintenance timers (counting even under zero)
- Multipurpose flexible timers (also for rental)
- Battery voltage measurement
- Complete engine and alternator protection
- CAN modules support
- USB port on-board
- 2 slots for plug-in modules
- Plug-in module concept for more capabilities (RS232, RS485, Ethernet, GPRS, 4G/LTE, Modbus, SNMP, emails, SMS, I/Os)
- Cloud-based monitoring and control via WebSupervisor) (optional module required)
- Geofencing and tracking via WebSupervisor (optional module required)
- Control and monitoring over SMS (GSM module required)
- 3 levels of password protection
- In-built PLC, complemented with a monitoring/debugging tool, for additional functionality, if required
- Spare inputs and outputs available by default: binary input 2, binary output 1, analogue input 3,
- A version for low temperature is also available



AVR, digital

3 phase

PMG

+/- 0,25 % AREP+

Voltage regulator type

Voltage measurement

Voltage accuracy

AVR supply system AVR supply optional



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Standard equipment

- Scania DC16 093A 02-53 engine
- 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 Titan Cargo 15W40
- Fuel filter with water separator
- Coolant Fuchs Maintain Fricofin LL-50
- Starting batteries 2x180Ah
- Linear automatic battery charger
- Leroy Sommer TAL 0473 E alternator
- Digital AVR
- GCB Schneider NS1000 3P + Micrologic 2.0
- GCB shunt release coil
- Busbar power output
- ComAp IL-AMF25 controller
- Acoustic alarm
- Emergency stop button
- Fuel tank integrated with a frame
- Welded fuel tank in spill containment
- Two fuel inlets
- Fuel level indicator
- Engine and alternator anti vibration mounts
- Exhaust silencer with compensator

Maintenance guidelines

Fuel filters replacement Oil replacement Oil filters replacement Coolant replacement Air filter replacement Battery replacement

Electrical installation

500 h / 1 year

After first 100h, then every 500 h / 1 year After first 100h, then every 500 h / 1 year 1000 h / 2 years 500 h 2 years According to local requirements, at least once per year

Installation guidelines

Power terminal Recommended cable for up to 30m power cable way Recommended cable for do 30m generator heater supply Exhaust pipe min diameter (max. 7 m, 4 bends) Exhaust pipe min diameter (max. 15 m, 4 bends)

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

Busbar Flexible 2x5x240 mm² Flexible 3x2,5 mm² 159 mm

Warranty

Continuous operation generators

12 months up to 1000 working hours

Optional equipment

- Oil draining hand pump
- 4P Schneider NS Micrologic 2.0 GCB
- Transfer switch controlled by generator controller
- Transfer switch with ATS controller
- ATS accessories for outdoor application
- GPRS communication card
- Ethernet card
- RS 485, RS 232 card
- Remote display
- Generator spill containment level detector
- External, double wall fuel tank 1 000 10 000 l
- Fuel tank filling pump and shut-off valve