



Power Generator FD 1460 S-T

Code: F.1460.SAG24-T9000T1998-02

Main Features

- Digital voltage regulation +/-0,25 %
- Three phase voltage control
- Low disturbance level THD <3,5%
- Alternator short circuit capacity 270 % I_n (optional 300 %)
- Class H insulation
- Protection index IP23
- Common power output busbar

General Data

Maximum power ESP	1534,0 kva / 1227,0 kw	
Nominal power PRP	1395,0 kva / 1116,0 kw	
Nominal Current PRP	2013,0 A	
Frequency	50 Hz	
Voltage	400 V	
Emission standard	fuel optimized	
Fuel	Diesel (EN 590)	
Fuel tank capacity	2x990 l	
Fuel consumption @ 50% / 75% 100% /110% PRP	152,2 / 222,6 / 282,4 / 317,6 l/h	
Autonomy @ 75% / 100% load	8,0 / 6,3 h	
Weight without fuel	11520 kg	
Dimensions L x W x H	9000 x 1900 x 2600 mm	
Guaranteed noise power L _{wa}	107 dBA	
Acoustic pressure @7mL _{pa}	75,8 ± 1 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
- Synchronization with other units
- Synchronization with mains available as additional option
- Autonomy 8,0 h with 75 % load
- Even wear-off due to automatic operation priority swap

Main Components & Equipment

- Scania DC16 078A 02-43 engine
- Leroy Sommer TAL 049 B alternator
- Brushless alternator
- Digital AVR
- ComAp IG4 200 Controller
- 2 x Schneider NS1250 3P + Micrologic 2.0 type generator circuit breaker
- GCB undervoltage release coil
- Linear automatic battery charger
- Engine heater
 - Electronic speed governor
- Fuel system Extra high pressure XPI
- Welded frame with 2x990 l fuel tank, spill containment and noise insulation
- Two fuel inlets
- Four lifting eyes
- Extended supports 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
- Noise directive 2000/14/EC
- ISO 8528-1/2018, ISO 8528-5/2022
- ISO 8528-13:2016
- IEC 60204-1

Contact data

FOGO Sp. z o.o.

Święciechowska 36, 64-115 Wilkowice agregaty@fogo.pl, www.fogo.pl



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Engine		Alternator	
Manufacturer	Scania	Manufacturer	Leroy Sommer
Туре	DC16 078A 02-43	Туре	TAL 049 B
Made in	Sweden	Made in	Czech Republic
Engine power	596,0 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	730,0 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	Extra high pressure XPI	Technology	Brushless
Electrical system	24 V	Short circuit maintaining capacity	270% 10s
Cooling system capacity	68,0 l	Efficiency	93,6 %
Oil pan capacity	48,0 l	Insulation class	Н
Fuel type	Diesel (EN 590)	Total harmonic content THD	<3,5 %
		Reactance Xd"	15,9 %
		Voltage regulator type	AVR, digital
		Voltage measurement	3 phase
		Voltage accuracy	+/- 0,25 %

Controller

- Controller type: ComAp InteliGen4 200,
- Intuitive operator interface,
- Parallel operation for up to 32 gen-sets,
- Support of MINT and SPTM applications,
- Running Hours equalization,
- Load sharing and VAr sharing via CAN,
- Power management, oad demand start / stop,
- Comprehensive history log with up to 350 events,
- Total remote monitoring and control,
- Real time clock,
- Detailed event based history with up to 350 records,
- Rental timers,
- PLC support with PLC editor and monitor,
- True RMS measurement,
- Generator protection (over/under frequency, voltage, overcurrent),
- Battery voltage measurement,
- Complete engine and alternator protection,
- Multipurpose flexible timers with full calendar,
- Communication with ECU, supporting CAN J1939 standard,
- Up to 5 languages in the controller,
- Active SMS and emails in different languages,
- Integrated communication and control ports (USB/CAN/RS485 on board, USB host,
- Support of MODBUS RTU/TCP or SNMP v1/v2c *
- 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),
- 3 levels of password protection,
- PLC module for extended, customized functionality,
- Spare signals available: 4 binary inputs, 2 binary outputs, 3 analogue inputs



AREP+

PMG

AVR supply system AVR supply optional



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Standard equipment

- Scania DC16 078A 02-43 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
- Coolant inlet outside, on the top of the canopy
- Starting batteries 4x180Ah
- Linear automatic battery charger
- Leroy Sommer TAL 049 B alternator
- Digital AVR
- GCB 2 x Schneider NS1250 3P + Micrologic 2.0
- GCB undervoltage release coil
- Busbar power output
- ComAp IG4 200 controller
- Acoustic alarm
- Emergency stop button
- Silenced canopy, RAL 7024
- Fuel tank integrated with a frame and spill containment
- Two fuel inlets inside the canopy
- Fuel level indicator
- Engine and alternator anti vibration mounts
- Exhaust silencer with compensator
- Lifting eyes

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. 7m, 4 bends) Exhaust pipe min diameter (max. 15m, 4 bends) Common busbar Contact FOGO Technical Department Flexible 5x2,5 mm² 159 mm

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

Warranty

Continuous operation generators

12 months up to 1000 working hours

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Optional equipment

Battery disconnector

Ethernet card

Remote display

RS 485, RS 232 card

Electronic engine speed governor1

4P Schneider NS Micrologic 2.0 GCB

ATS accessories for outdoor application

Fuel inlet outside of the canopy with lock

Generator spill containment level detector

Fuel tank filling pump and shut-off valve

External, double wall fuel tank 1 000 - 10 000 l

Transfer switch with ATS controller

GPRS communication card