



Picture for reference only

# Power Generator

## FD 55 Z5-Q

Article: 50813

Code: F.055.Z5ZC2-Q2365T260-02

### Main Features

- Digital voltage regulation +/-0,25 %
- Three phase voltage control
- Low disturbance level THD <3%
- Alternator short circuit capacity 320% I<sub>n</sub> 10s
- Class H insulation
- Protection index IP23
- Performance class G3 (acc. ISO 8528-5)
- Ready to load just after start
- AMF and MRS functionality and protection
- Autonomy 62,8 h with 75 % load
- Compact design
- Forklift manouvvable from the front and side wall

### General Data

<b>Maximum power ESP</b>	60,0 kVA / 48,0 kW
<b>Nominal power PRP</b>	55,0 kVA / 44,0 kW
<b>Nominal Current PRP</b>	79,0 A
<b>Frequency</b>	50 Hz
<b>Voltage</b>	400 V
<b>Emission standard</b>	stage V
<b>Fuel</b>	Diesel (EN 590)
<b>Fuel tank capacity</b>	670 l
<b>Fuel consumption @ 50% / 75% / 100% / 110% PRP</b>	6,5 / 9,6 / 12,6 / 13,9 l/h
<b>Autonomy @ 75% / 100% load</b>	62,8 / 47,8 h
<b>Weight without fuel</b>	~1200 kg
<b>Dimensions L x W x H</b>	2365 x 1200 x 1860 mm
<b>Guaranteed noise power L<sub>wa</sub></b>	97 dBA
<b>Acoustic pressure @7mL<sub>pa</sub></b>	~68 dBA

### Main Components & Equipment

- Deutz TCD 2.9 L4 engine
- Linz PRO18L G/4 alternator
- Brushless alternator
- Digital AVR
- ComAp Controller
- Schneider NSX 160 3P + Mic.2.2 type generator circuit breaker
- GCB shunt release coil
- Linear automatic battery charger
- Engine heater
- ECU speed governor
- Fuel system electrical pump
- Welded frame with 670 l fuel tank, spill containment and noise insulation
- Two fuel inlets
- Four lifting eyes
- Extended forklift skids for easy attachment to the ground

For details see page 3

### 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 1h within a 12-hour period of operation. Average power consumption should not exceed 70% PRP for each 24 hours of work.

#### 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 500h of operation per year, average power consumption should not exceed 80% ESP for each 24 hour of work. Continuous operation limited to 300h.

### 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.

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### Engine

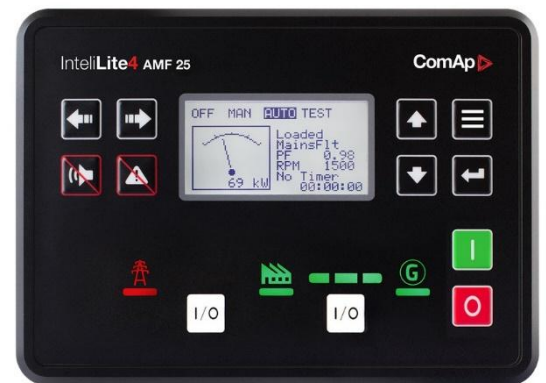
<b>Manufacturer</b>	Deutz
<b>Type</b>	TCD 2.9 L4
<b>Made in</b>	Germany
<b>Engine power</b>	49,1 kW
<b>Emission standard</b>	stage V
<b>Rotation per minute</b>	1500 rpm
<b>Engine governor</b>	ECU
<b>Governor class</b>	G3 (ISO 8528-5)
<b>Displacement</b>	2,9 l
<b>No of cylinder</b>	4
<b>Fuel system</b>	electrical pump
<b>Electrical system</b>	12 V
<b>Cooling system capacity</b>	11,0 l
<b>Oil pan capacity</b>	9,5 l
<b>Fuel type</b>	Diesel (EN 590)

### Alternator

<b>Manufacturer</b>	Linz
<b>Type</b>	PRO18L G/4
<b>Made in</b>	Italy
<b>Nominal Voltage</b>	400 V
<b>Nominal power factor (cos φ)</b>	0,8
<b>Ambient temperature, altitude</b>	40 °C, 1000 m a.s.l.
<b>Nominal Power</b>	60,0 kVA
<b>Protection index</b>	IP 23
<b>No of bearing</b>	Single bearing
<b>Coupling</b>	Direct
<b>Technology</b>	Brushless
<b>Short circuit maintaining capacity</b>	320% 10s
<b>Efficiency</b>	89,6 %
<b>Insulation class</b>	H
<b>Total harmonic content THD</b>	<3 %
<b>Reactance Xd''</b>	7 %
<b>Voltage regulator type</b>	Digital AVR
<b>Voltage measurement</b>	3 phase
<b>Voltage accuracy</b>	+/- 0,25 %
<b>AVR supply system</b>	Auxiliary winding
<b>AVR supply optional</b>	PMG

### Controller

- Controller type: ComAp IntelliLite 4 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 with battery back-up
- 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
- Inbuild RS485
- 2 slots for plug-in modules
- Full remote communications support (AirGate 2.0)
- Plug-in module concept for more remote communication capabilities (Ethernet /4G, Modbus TCP/RTU, SNMP v1/v2c.)
- Cloud-based monitoring and control via WebSupervisor (optional module required)
- Geofencing and tracking based on GPS position (optional module required)
- Active SMS and emails
- 3 levels of password protection
- Cyber security improvement
- In-built PLC, complemented with a monitoring/debugging tool, for additional functionality, if required
- Spare inputs and outputs available by default: binary input – 3, binary output – 1, analogue input – 3,
- A version for low temperature is also available





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## Standard equipment

- Deutz TCD 2.9 L4 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 MAXX II 5W-30
- Fuel filter with water separator
- Coolant Fuchs Maintain Fuchs Maintain Fricofin LL 50
- Coolant inlet outside, on the top of the canopy
- Starting batteries
- Linear automatic battery charger
- Linz PRO18L G/4 alternator
- Digital AVR DVR, cyfrowy
- GCB Schneider NSX 160 3P + Mic.2.2
- GCB shunt release coil
- ComAp 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
- Forklift supports and lifting eyes

## Optional equipment

- Electronic engine speed governor
- Oil draining hand pump
- Oil pressure sensor
- Engine high temperature sensor
- Battery disconnecter
- 4P Schneider NSX Micrologic 2.2 GCB
- Power Lock type power output
- Power sockets box
- 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
- Fuel inlet outside of the canopy with lock
- Generator spill containment level detector
- External, double wall fuel tank 1 000 – 10 000 l
- Fuel tank filling pump and shut-off valve

## Maintenance guidelines

**Fuel filters replacement**  
**Oil replacement**  
**Oil filters replacement**  
**Coolant replacement**  
**Air filter replacement**  
**Battery replacement**  
**Electrical installation**

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)**

GCB terminal  
Flexible 5x25 mm<sup>2</sup>  
Flexible 3x2,5 mm<sup>2</sup>

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

## Warranty

**Continuous operation generators**

12 months up to 1000 working hours