



Picture for reference only

# Power Generator

## FD 325 B-Q

Article: 49482

Code: F.0325.BZC2-Q3991T999-02

### 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 17,1 h with 75 % load

### General Data

<b>Maximum power ESP</b>	355,0 kVA / 284,0 kW
<b>Nominal power PRP</b>	323,0 kVA / 258,0 kW
<b>Nominal Current PRP</b>	466,0 A
<b>Frequency</b>	50 Hz
<b>Voltage</b>	400 V
<b>Emission standard</b>	fuel optimized
<b>Fuel</b>	Diesel (EN 590)
<b>Fuel tank capacity</b>	999 l
<b>Fuel consumption @ 50% / 75% / 100% / 110% PRP</b>	35,4 / 52,3 / 71,0 / 78 l/h
<b>Autonomy @ 75% / 100% load</b>	17,1 / 12,6 h
<b>Weight without fuel</b>	3370 kg
<b>Dimensions L x W x H</b>	3990 x 1600 x 2400 mm
<b>Guaranteed noise power L<sub>wa</sub></b>	97 dBA
<b>Acoustic pressure @7mL<sub>pa</sub></b>	68,5 ± 1 dBA

### Main Components & Equipment

- Baudouin 6M16G350/5 engine
- Linz PRO28M F/4 alternator
- Brushless alternator
- Digital AVR DR-30
- ComAp IL4-AMF25 Controller
- Schneider NSX 630 3P + Mic.2.3 type generator circuit breaker
- GCB shunt release coil
- Linear automatic battery charger
- Engine heater
- electronic speed governor
- Fuel system direct injection
- Welded frame with 999 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 1 hour within a 12-hour period of operation. Average power consumption should not exceed 70% PRP for each 24h of operation.

#### Maximum power ESP:

Standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload allowed, average power consumption should not exceed 70% ESP. Limited to 500h of operation per year including 25 hours with ESP.

### 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

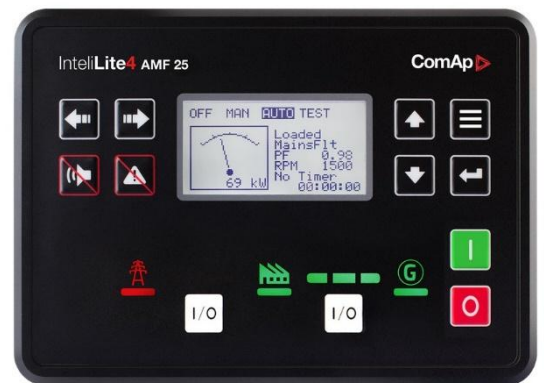
<b>Manufacturer</b>	Baudouin
<b>Type</b>	6M16G350/5
<b>Made in</b>	China
<b>Engine power</b>	275,6 kW
<b>Emission standard</b>	fuel optimized
<b>Rotation per minute</b>	1500 rpm
<b>Engine governor</b>	electronic
<b>Governor class</b>	G3 (ISO 8528-5)
<b>Displacement</b>	9,7 l
<b>No of cylinder</b>	6
<b>Fuel system</b>	direct injection
<b>Electrical system</b>	24 V
<b>Cooling system capacity</b>	67,0 l
<b>Oil pan capacity</b>	22,0 l
<b>Fuel type</b>	Diesel (EN 590)

## Alternator

<b>Manufacturer</b>	Linz
<b>Type</b>	PRO28M F/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>	350,0 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>	93,7 %
<b>Insulation class</b>	H
<b>Total harmonic content THD</b>	<3 %
<b>Reactance Xd''</b>	8,5 %
<b>Voltage regulator type</b>	Digital AVR DR-30
<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 – 1, binary output – 1, analogue input – 1,
- A version for low temperature is also available





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## Standard equipment

- Baudouin 6M16G350/5 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 Fuchs Maintain Fricofin DP
- Coolant inlet outside, on the top of the canopy
- Starting batteries 2x180Ah
- Linear automatic battery charger
- Linz PRO28M F/4 alternator
- Digital AVR DR-30
- GCB Schneider NSX 630 3P + Mic.2.3
- GCB shunt release coil
- Busbar power output
- ComAp IL4-AMF25 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

- Oil draining hand pump
- Engine high temperature sensor
- Battery disconnecter
- 4P Schneider NSX Micrologic 2.3 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

<b>Fuel filters replacement</b>	500 h / 1 year
<b>Oil replacement</b>	After first 100h, then every 500 h / 1 year
<b>Oil filters replacement</b>	After first 100h, then every 500 h / 1 year
<b>Coolant replacement</b>	4000 h / 2 years
<b>Air filter replacement</b>	1000 h
<b>Battery replacement</b>	2 years
<b>Electrical installation</b>	According to local requirements, at least once per year

## Installation guidelines

<b>Power terminal</b>	GCB terminal
<b>Recommended cable for up to 30m power cable way</b>	Flexible 2x5x120 mm <sup>2</sup>
<b>Recommended cable for do 30m generator heater supply</b>	Flexible 3x2,5 mm <sup>2</sup>
<b>Exhaust pipe min diameter (max. 7 m, 4 bends)</b>	114 mm
<b>Exhaust pipe min diameter (max. 15 m, 4 bends)</b>	133 mm

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

## Warranty

<b>Continuous operation generators</b>	12 months up to 1000 working hours
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