

GENERATING SET GE 275 BSX



POWER RATINGS

* Stand-By three-phase power (LTP)	275 kVA (220 kW) 400V / 397A
* PRP three-phase power	250 kVA (200 kW) 400V / 361A
* PRP single-phase power	/
Frequency	50 Hz
Cos φ	0.8

* Output powers according to ISO 8528-1

ENGINE 1500 RPM

4 STROKE, DIRECT INJECTION, TURBOCHARGED

Model	BAUQUIN 6M16G6D0/S
* Stand-By net power	251 kW (338 hp)
* PRP net power	227 kW (306 hp)
* COP net power	/
Cylinders / Displacement	6 / 9,726 lit. (9726 cm ³)
Bore / Stroke	126 / 130 (mm)
Compression ratio	17 : 1
BMEP (Brake Mean Effective Pressure : LTP - PRP)	2171 kPa
Speed governor type	Electronic
FUEL CONSUMPTION	
110 % (Stand-by power)	63,4 lit./h
100 % to PRP	56,9 lit./h
75 % to PRP	42,2 lit./h
50 % to PRP	28,3 lit./h
25 % to PRP	15,4 lit./h
COOLING SYSTEM	
Total system cap. - only engine	42 lit. - 22 lit
Fan air flow	415 m ³ /min.
LUBRIFICATION SYSTEM	
Total oil system capacity	19 - 22 lit.
Oil capacity in sump	/
Oil consumption at full load	0,2 % (fuel consumption)

FEATURES

- Electronic engine speed control
- Fuel pre-filter and filter with water-in-fuel indicator
- Two lifting hooks for the central lifting system
- Sealed base to contain any engine fluid leaks, preventing environmental pollution
- Door with viewing window for the control panel
- External access for filling the radiator
- External cap for draining liquids from the crankcase
- Oil extraction pump
- 3-way valve for transferring fuel from an external tank with quick-fill couplings housed in a special recess (OPTIONAL)
- Fuel level sensor / low radiator fluid level / crankcase leak detection
- Battery disconnect switch
- Emergency button
- Electrical distribution panel with three-phase and single-phase output sockets (OPTIONAL)
- Four-pole main circuit breaker
- Electronic differential relay with adjustable current and trip time, standard with the electrical distribution panel
- Brushless alternator with three-phase sensing electronic voltage regulation (AVR) and marine impregnation protection



EXHAUST SYSTEM	
Maximum exhaust gas flow	50,6 m ³ /min.
Max. exhaust gas temp.	700 °C
Maximum back pressure	6 kPa (0,06 bar)
External diameter exhaust pipe	/
ELECTRICAL SYSTEM	
Starter motor power	8,5 kW
Battery charging alternator cap.	55 A
Cold start	- 10 °C
With cold start aid	- 30 °C
AIR FILTER	
Combustion air flow	14,2 m ³ /min.
HEAT REJECTED AT FULL LOAD	
To exhaust system	/
To water and oil	/
Radiated to room	/
To charge cooler	/

* Output powers according to ISO 3046-1

ALTERNATOR

SYNCHRONOUS, THREE-PHASE, SELF-EXCITED, SELF-REGULATED, BRUSHLESS	
Continuous power	250 kVA
Stand-by power	280 kVA
Three phase voltage	380 - 440 Vac
Frequency	50 Hz
Cos φ	0.8
Model A.V.R.	HVR-30 (3ph. sensing)
Voltage regulation acc.	$\pm 1,0$ %
Sustained short circuit current	$\geq 3 I_n$ (x10 sec.)
Transient dip (100% load)	< 10 %
Recovery time	< 0,3 sec
Efficiency at 100% load	92,7 % (400V - Cos φ 0,8)
Insulation	Class H
Connection - Terminals	Star - N°12
Electromagnetic compatibility (R.F.I. suppr.)	EN 55011
Waveform distorsion - THD	< 3 %
Telephone interference - THF	< 2 %

REACTANCES (250 kVA - 400V)	
Direct axis synchronuos - X_d	350 %
Direct axis transient - X'_d	18,0 %
Subdirect axis transient - X''_d	10,0 %
Quadrature axis synchronuos - X_q	212 %
Quadr. axis subtransient - X''_q	/
Negative sequence - X_2	/
Zero sequence - X_0	/
TIME CONSTANTS	
Transient - T'_d	0,115 sec
Subtransient - T''_d	0,014 sec
Open circuit - T'_{do}	1,85 sec
Armature - T_a	/
Short-circuit ratio K_{cc}	0.38
Grado di Protezione IP	IP 23
Cooling air flow	0,608 m ³ /sec.
Coupling I Bearing	Direct SAE 3 - 11 ½ - N°1

GENERAL SPECIFICATIONS

Fuel tank capacity	425 lt.
Running time (75% to PRP)	10 h
Starter battery	24 Vdc [2x12Vdc-180Ah 1100A CCA(EN)]

IP protection degree	IP 44
Acoustic pressure L_{pA}	74 dB(A) @ 7m
Performance class (ISO 8528)	G3

DIGITAL CONTROL PANEL

INTELLITE4 AMF9 CONTROLLER CHARACTERISTICS	
Operating mode	OFF - MAN - AUTO - TEST
Display - Pulsanti-LEDs	- Backlit display, LCD 132x64 pixels - Buttons / Buttons: START - STOP - RESET ALARMS / FAULT RESET - LEDs: Generator / GCB ON status - Grid status
Generator Measures	- Voltages: L1-L2 / L2-L3 / L3-L1 - N-L1/N-L2/N-L3 - Currents: I1 - I2 - I3 - Frequency Hz - Power: kVA – kW – kVAR - Energy: kWh – kVh - Cos φ per phase
Engine Measures	- Water temperature - Oil pressure - Fuel level - Rpm meter - Battery voltage - Maintance - Hours meter - Starts number
Generator Protections	- Overload - Overcurrent - Short circuit - Over-Undervoltage - Over-Underfrequency - Voltage asymmetry - Unbalanced current - Phase sequence
Engine Protections	- Overspeed - High water temperature pre-alarm - High water temperature - Low oil pressure pre-alarm - Low oil pressure - Low fuel level pre-alarm - Low fuel level alarm - High battery voltage - Low battery voltage - Alternator/battery charger failure - Emergency stop - Failure to start - Failure to stop - Low water level
AMF functins (Automatic control panel only)	- Voltages: L1-L2 / L2-L3 / L3-L1 - N-L1/N-L2/N-L3 - Frequency - Three-phase detection - Mains overvoltage - Undervoltage Network - Network overfrequency - Network underfrequency - Voltage asymmetry - Phase rotation - Management of two standby generators
Features	- Event log, 150 stored events 3 programmable test timers - Programming from panel or PC 3 selectable languages (other languages available) - Direct connection to engines with ECUs (Stage V, Tier 4 Final) via CAN Bus J1939 - External start and stop - Programmable inputs and outputs - Alternative configurations (50/60Hz) - IP 65 protection - Operating temperature: -20°C – +70°C
Communication	- USB port - RS232-RS485 (optional) - Modbus RTU/TCP (optional) - Internet connection with Ethernet (optional) - Online control and monitoring via web pages (embedded web server) (optional) - GPS/4G modem (optional) (geographic tracking via Web-Supervisor) - Internal PLC support



MANUAL CONTROL PANEL WITH SOCKETS

- Power switch
- Audible warning light
- Emergency stop button
- Circuit breaker
- Electronic differential relay
- Terminal block for TCM 35 remote control and PAC I 275-M (400A) Mains/ Generation Transfer Switch (ATS) panel. Earth terminal (PE)
- Output sockets: 1x 400V 125A 3P+N+T CEE IP67
 - 1x 400V 63A 3P+N+T CEE IP67
 - 1x 400V 32A 3P+N+T CEE IP67
 - 1x 400V 16A 3P+N+T CEE IP67
 - 1x 230V 16A 2P+T CEE IP67
 - 1x 230V 16A 2P+T SCHUKO IP67
- Circuit breaker (for 125A socket)
- Circuit breaker (for 63A socket)
- Circuit breaker with residual current (RCD) (for 32A socket)
- Circuit breaker with residual current (RCD) (for 16A socket)
- Circuit breaker with residual current (RCD) (for 16A single-phase sockets)
- Earth terminal (PE)

AUTOMATIC CONTROL PANEL WITHOUT SOCKETS

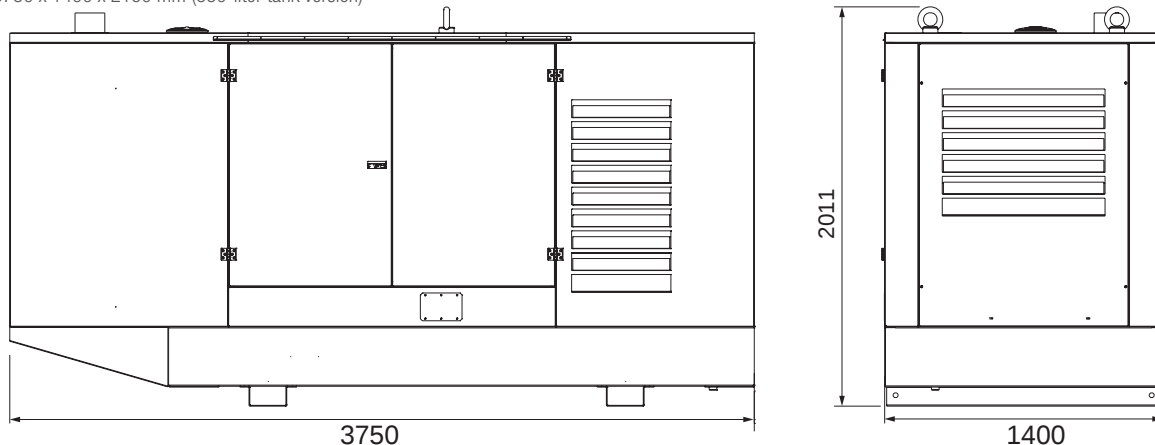
- IntelliLite 4 AMF9 Controller
- Power switch
- Horn
- Emergency stop button
- Connector for TCM 35 remote control
- Magnetic circuit breaker
- 16-pin PAC (ATS) connector (Automatic control panel only)
- Battery charger (Automatic control panel only)
- Earth terminal (PE)

WEIGHT - DIMENSIONS AND ACCESSORIES

GE 275 BSX

- DRY WEIGHT MACHINE:**
- 3160 kg
 - 3360 kg (850 lt.)
- Generating set pictured may include optional accessories.

- DIMENSIONS DRAW**
- 3750 x 1400 x 2190 mm (850-liter tank version)



VERSIONS IN ADDITION TO THE STANDARD FEATURES

	HEATER	REMOTE	3WAY	ISO	OIL & GAS	850L	TOP
3-way valve			✓		✓		✓
Water heater Engine	✓						✓
Radio control		✓					
Insulation monitor				✓			
Spark suppressor					✓		
Voltage adjustment from control panel							✓
850-liter tank						✓	

OPTIONS ON REQUEST

- Internet/Ethernet plug-in module with web server
- GPS/4G modem with antenna
- Plug-in module with dual RS232 and RS485 ports
- 15 alarm/status reporting board (configurable)
- PAC I 275-M Mains/Generation Transfer Switch (ATS) (400A)
- TCM35 remote control
- MT75 earthing

VERSIONS AVAILABLE

AUTOMATIC WITHOUT SOCKETS			
CH7W00F6	STANDARD	CH7W00F6AR	OIL & GAS+HEATER
CH7W00F6A	HEATER	CH7W00F6AHR	TOP
CH7W00F6AMF	HEATER+3WAY+850L		
MANUAL WITH SOCKETS			
CH7W00G6R	STANDARD	CH7W00G6HR	3WAY
CH7W00G6AR	HEATER	CH7W00G6T	ISO
CH7W00G6RW	REMOTE	CH7W00G6AHRU	TOP
CH7W00G6CHR	OIL & GAS		

GENERAL INFORMATION

COMPLIANCE GENERATING SETS WITH EC DIRECTIVES AND STANDARDS

2006/42 / EC (Machines Directive)
 2014/35 / EU (Low Voltage Directive)
 2014/30 / EU (EMC Directive)
 ISO 8528 (Reciprocating internal combustion engine driven alternating current generating sets)



ISO 9001:2008 - Cert. 0192

WARRANTY

All devices are covered by the manufacturer's warranty.

Non-contractual document. Specification subject to change without notice.

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