

GENERATING SET GE 275 FSX

The images are for reference



FEATURES

- Electronic engine speed regulation
- Two hooks for lifting unit
- Sealed base capable of containing any leaks of liquids present in the engine, avoiding environmental pollution
- External access for filling the radiator
- Oil extraction pump
- Fuel level sensor
- Low radiator liquid level sensor
- Battery disconnect switch
- Emergency button
- Four-pole general circuit breaker
- Electronic differential relay adjustable in current and intervention time
- Brushless alternator of primary brand with electronic voltage regulation "AVR" with three-phase detection with windings protected by marine impregnation
- Complies with regulation 2016/1628/EU FOR STATIONARY USE ONLY



water cooled



diesel



three-phase



electric

POWER RATINGS

* Stand-By three-phase power (LTP)	275 kVA (220 kW) / 400 V / 397 A
* PRP three-phase power	250 kVA (200 kW) / 400 V / 361 A
* PRP single-phase power	208 kVA (166.4 kW) / 400V / 300 A
Frequency	50 Hz
Cos φ	0.8

* Output powers according to ISO 8528-1

DEFINITION

Valid declared powers up to the followings environmental conditions: temperature 25°C, altitude 100 meters above sea level)

LTP power: stand-by power: Maximum available power for use with variable loads for a yearly number of hours limited at 500 h. No overload is admitted.

PRP power: continue power with variable loads. Maximum power for use with variable loads for a yearly illimited nubers of hours.

COP power: continuous power with constant load. Maximum power for use with constant loads for a yearly unlimited numbers of hours.

ENGINE 1500 RPM

4 STROKE, DIRECT INJECTION, TURBOCHARGED

Model	FPT N67 TE8P	FPT C87 TE3F (Stage 3A)
* Stand-By net power	238,5 kW (324 hp)	256 kW (348 hp)
* PRP net power	216 kW (294 hp)	232 kW (315 hp)
* COP net power	173 kW (235 hp)	185,5 kW (252 hp)
Cylinders / Displacement	6/ 6,7 lit. (6700 cm³)	6/ 8,7 lit. (8700 cm³)
Bore / Stroke	104 / 132 (mm)	117 / 135 (mm)
Compression ratio	17 : 1	16,5 : 1
BMEP (Brake Mean Effective Pressure : LTP - PRP)	/	2418 kPa - 2197 kPa
Speed governor type	Electronic	
FUEL CONSUMPTION		
110 % (Stand-by power)	57,2 lit./h	65,5 lit./h
100 % to PRP	51,5 lit./h	61 lit./h
75 % to PRP	38,8 lit./h	55 lit./h
50 % to PRP	24,9 lit./h	35,7 lit./h
COOLING SYSTEM		
Total system cap. - only engine	25,5 lit. - 10,5 lit.	63 lit. - 15 lit.
Fan air flow	203 kg/min.	308,4 m³/min.
LUBRIFICATION SYSTEM		
Total oil system capacity	17,2 lit.	28 lit.
Oil capacity in sump	8 lit. (min) - 12 lit. (max)	12,5 lit. (min) - 23 lit. (max)
Oil consumption at full load	< 0,05 lit./h	< 0,12 lit./h

EXHAUST SYSTEM

Maximum exhaust gas flow	16,16 kg/mim.	21.41 kg/mim.
Max. exhaust gas temp.	714 °C	488 °C
Maximum back pressure	5 kPa (0,05 bar)	5 kPa (0.05 bar)
External diameter exhaust pipe	/	
ELECTRICAL SYSTEM		
24 Vdc		
Starter motor power	3 kW	4,5 kW
Battery charging alternator cap.	90 A	
Cold start	- 10 °C	
With cold start aid	- 25 °C	
AIR FILTER		
Dry		
Combustion air flow	12,8 m³/min.	17.07 m³/min.
HEAT REJECTED AT FULL LOAD		
To exhaust system	560 kcal/kWh	650 kcal/kWh
To water and oil	358 kcal/kWh	316 kcal/kWh
Radiated to room	59 kcal/kWh	133 kcal/kWh
To charge cooler	139 kcal/kWh	150 kcal/kWh

* 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
Voltage regulation acc.	$\pm 1\%$
Sustained short circuit current	3 I _n
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.)	EN55011
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	11,1 %
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 Bearing	Direct SAE 3 -11 ½ - N°1

GENERAL SPECIFICATIONS

Fuel tank capacity	425 lt.	
Running time (75% to PRP)	11,5 h 23,5 h (850 lt.)	8,5 h (3A) 16,5 h (850 lt. - 3A)
Starter battery	24 Vdc [2x12Vdc-180Ah 1100A CCA(EN)]	

IP protection degree	IP 44
Pressure acoustic	70 dB(A) @ 7m
Performance class (ISO 8528)	G3

DIGITAL CONTROL PANEL

INTELLITE4 AMF9 CONTROLLER CHARACTERISTICS	
Operating mode	<ul style="list-style-type: none"> OFF - MAN - AUTO - TEST
Display - Buttons-LEDs	<ul style="list-style-type: none"> Backlit display, LCD 132x64 pixels Buttons / Buttons: START - STOP - RESET ALARMS / FAULT RESET LEDs: Generator / GCB ON status - Grid status
Generator Measures	<ul style="list-style-type: none"> Voltage : L1-L2 / L2-L3 / L3-L1 - N-L1/N-L2/N-L3 Current : I1 - I2 - I3 Frequency Hz Powers : kVA - kW - kVAR (totali e per fase) Energy : kVAh - kWh - kVAhR Cos φ (medium and per phase)
Engine Measures	<ul style="list-style-type: none"> Water temperature Oil pressure Fuel level Rpm meter Battery voltage Maintenance Hours meter Starts number
Generator Protections	<ul style="list-style-type: none"> Overload Overcurrent Short circuit Over-Undervoltage Over-Underfrequency Voltage asymmetry Unbalanced current Phase sequence
Engine Protections	<ul style="list-style-type: none"> Overspeed High water temperature warning Low oil pressure warning Low fuel level warning Over-Under battery voltage Battery charge alternator failure Start failure Stop failure Emergency stop Low water level shutdown (option)
AMF functions (Automatic control panel only)	<ul style="list-style-type: none"> Measure mains voltage : L1-L2 / L2-L3 / L3-L1 - N-L1/N-L2/N-L3 Measure mains frequency Three phase detection Over-Under mains voltage Over-Under mains frequency Voltage asymmetry Phase sequence Dual mutual stand-by application
Features	<ul style="list-style-type: none"> Event history, 150 stored events 3 programmable test timers Programming from panel or from PC 3 selectable languages (other languages available) Direct connection to engines with ECU (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



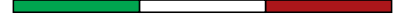
Communication
<ul style="list-style-type: none"> USB port RS232- RS485 (optional) Modbus RTU / TCP (optional) Internet connection with Ethernet (optional) Online control and monitoring on web pages (embedded web server) (optional) GPS / 4G modem (optional) (geographical tracking via WebSupervisor) Internal PLC support

MANUAL/AUTOMATIC CONTROL PANEL WITHOUT SOCKETS

- Intelilite4 AMF9 controller
- Power switch
- Siren
- Emergency stop button
- Connector for remote control TCM 35
- Circuit breaker
- 16-pole PAC (ATS) connector (control panel only Automatic)
- Battery charger (Automatic control panel only)
- Ground terminal (PE)

MANUAL CONTROL PANEL WITH SOCKETS

- Intelilite4 AMF9 controller
- Power switch
- Siren
- Emergency stop button
- Connector for TCM 35 remote control
- Circuit breaker
- Electronic differential relay
- 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 IP54
- Circuit breaker (for 125A socket)
- Magneto-thermal switch (for 63A socket)
- Differential magneto-thermal switch (for 32A socket)
- Differential magneto-thermal switch (for 16A socket)
- Differential magneto-thermal switch (for 16A single-phase sockets)
- Earth terminal (PE)



WEIGHT - DIMENSIONS

GE 275 FSX



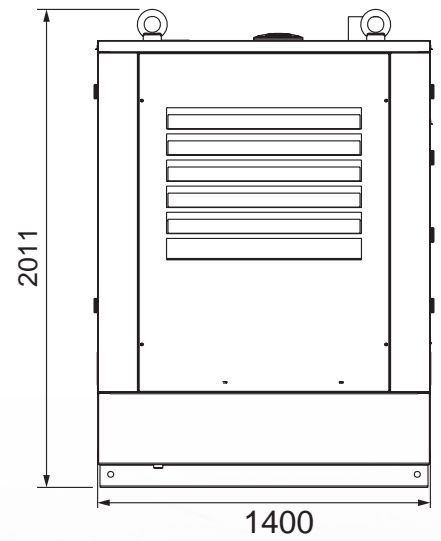
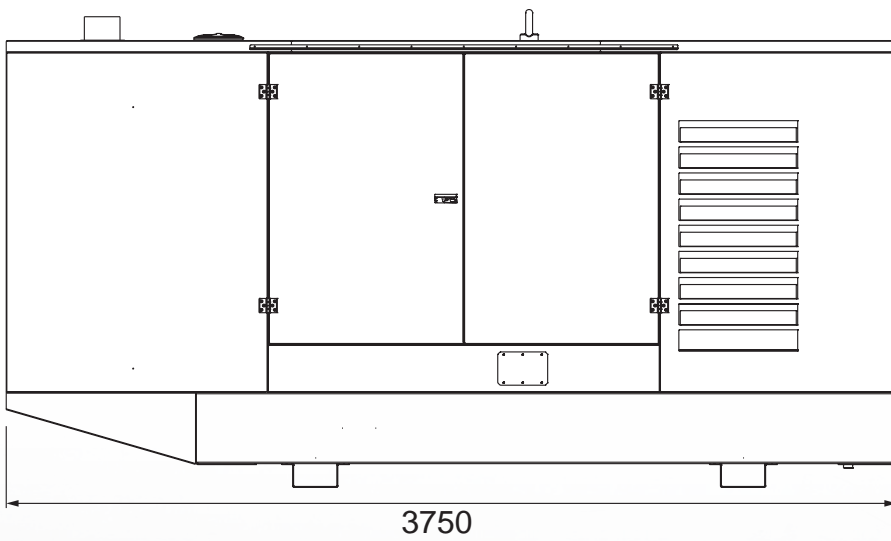
DRY WEIGHT MACHINE:

- 3100 kg
- 3500 kg (3A)
- 3300 kg (850 lt.)
- 3700 kg (3A - 850 lt.)

Generating set pictured may include optional accessories.



DIMENSIONS DRAW





⊕ VERSIONS IN ADDITION TO THE STANDARD FEATURES

	PLUS	HEATER	WINTER	REMOTE	3WAY	850L	TOP	OIL & GAS	ISO
GFI Electr.	√		√	√	√	√	√	√	
Radio control				√					
3-way valve					√		√	√	
850l tank						√			
Engine water heater		√	√				√		
Isometer									√
Spark arrestor								√	
Reg. V from panel							√		

⊕ OPTIONS ON REQUEST

- Internet plug-in module
- GPS/4G modem with antenna
- 15 alarm/state reporting card (configurable)
- Mains/Generation Transfer Switchboard (ATS) PAC-275 M (400A) (Only with Automatic panel)
- Mains/Generation Transfer Switchboard (ATS) PAC I 275-M (400A) (Only with Manual panels)
- TCM35 remote control
- MT75 earthing

☀ AVAILABLE VERSIONS

MANUAL WITHOUT SOCKETS		AUTOMATIC WITHOUT SOCKETS	
CH7N4056	STANDARD	CH7N40F6	STANDARD
CH7J7056 (3A)		CH7J70F6 (3A)	
CH7N4056R	PLUS	CH7N40F6A	HEATER
CH7J7056R (3A)		CH7J70F6A (3A)	
CH7N4056RW	REMOTE	CH7N40F6AR	WINTER
CH7J7056RW (3A)		CH7J70F6AR (3A)	
CH7N4056HR	3WAY	CH7N40F6AHR	HEATER + 3WAY
CH7J7056HR (3A)		CH7J70F6AHR (3A)	
CH7N4056MR	850L	CH7N40F6MR	850L
CH7J7056MR (3A)		CH7J70F6MR (3A)	
CH7N4056AHRU	TOP	CH7N40F6AMR	HEATER + 850L
CH7J7056AHRU (3A)		CH7J70F6AMR (3A)	
		CH7N40F6AMHR	HEATER + 850L
		CH7J70F6AMHR (3A)	+ 3WAY

MANUAL WITH SOCKETS			
CH7N40G6R	PLUS	CH7N40G6T	ISO
CH7J70G6R (3A)		CH7J70G6T (3A)	
CH7N40G6AR	WINTER	CH7N40G6MR	850L
CH7J70G6AR (3A)		CH7J70G6MR (3A)	
CH7N40G6RW	REMOTE	CH7N40G6CHR	OIL & GAS
CH7J70G6RW (3A)		CH7J70G6CHR (3A)	
CH7N40G6HR	3WAY	CH7N40G6AHRU	TOP
CH7J70G6HR (3A)		CH7J70G6AHRU (3A)	

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 8528-13 :2016 (AC generating sets powered by reciprocating internal combustion engines, Part 13: Safety)



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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