



GENERATING SET GE 335 FXC

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)	330 kVA (264 kW) / 400 V / 476.3 A
* PRP three-phase power	300 kVA (240 kW) / 400 V / 433 A
* PRP single-phase power	250 kVA (200 kW) / 400V / 361.2 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 (IVECO) C87 TE4	FPT C87 TE1PV (Stage 3A)
* Stand-By net power	299 kW	288 kW
* PRP net power	275 kW	256 kW
* COP net power	214 kW	203 kW
Cylinders / Displacement	6/ 8700 cm ³ (8.7 lit)	
Bore / Stroke	117 / 135 (mm)	
Compression ratio	15,9 : 1	16,5 : 1
BMEP (Brake Mean Effective Pressure : LTP - PRP)	2776 kPa - 2040 kPa	2720 kPa - 2520 kPa
Speed governor type	Electronic	
FUEL CONSUMPTION		
110 % (Stand-by power)	72 lit./h	71,2 lit./h
100 % to PRP	66.1 lit./h	64,1 lit./h
75 % to PRP	52.2 lit./h	52,4 lit./h
50 % to PRP	34.2 lit./h	32,8 lit./h
COOLING SYSTEM		
Total system cap. - only engine	58 lit. - 15 lit.	63 lit. - 15 lit.
Fan air flow	339 m ³ /min.	390 m ³ /min.
LUBRIFICATION SYSTEM		
Total oil system capacity	28 lit.	
Oil capacity in sump	12.5 lit. (min) - 23 lit. (max)	
Oil consumption at full load	< 0.12 lit./h	

EXHAUST SYSTEM

Maximum exhaust gas flow	23.25 kg/mim.	20,80 kg/mim.
Max. exhaust gas temp.	488 °C	
Maximum back pressure	10 kPa (0.1 bar)	
External diameter exhaust pipe	/	
ELECTRICAL SYSTEM		
Starter motor power	24 Vdc	
Battery charging alternator cap.	4.5 kW	
Cold start	90 A	
With cold start aid	- 10 °C	
	- 25 °C	
AIR FILTER		
Combustion air flow	18.08 m ³ /min.	16,5 m ³ /min.
HEAT REJECTED AT FULL LOAD		
To exhaust system	650 kcal/kWh	
To water and oil	327 kcal/kWh	370 kcal/kWh
Radiated to room	68 kcal/kWh	111 kcal/kWh
To charge cooler	225 kcal/kWh	155 kcal/kWh

* Output powers according to ISO 3046-1





ALTERNATOR

SYNCHRONOUS, THREE-PHASE, SELF-EXCITED, SELF-REGULATED, BRUSHLESS	
Continuous power	300 kVA
Stand-by power	325 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	3 In
Transient dip (100% load)	< 10 %
Recovery time	< 0.3 sec
Efficiency at 100% load	93.1 % (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 (300 kVA - 400V)	
Direct axis synchronuos - Xd	352 %
Direct axis transient - X'd	18,5 %
Subdirect axis transient - X''d	9,0 %
Quadrature axis synchronuos - Xq	210 %
Quadr. axis subtransient - X''q	/
Negative sequence - X2	/
Zero sequence - X0	/
TIME CONSTANTS	
Transient - T'd	0,116 sec
Subtransient - T''d	0,014 sec
Open circuit - T'do	1,85 sec
Armature - Ta	/
Short-circuit ratio Kcc	0.39
Grado di Protezione IP	IP 23
Cooling air flow	0,642 m ³ /sec.
Coupling I Bearing	Direct SAE 1 -14 - N°1

GENERAL SPECIFICATIONS

Fuel tank capacity	425 lt.
Running time (75% to PRP)	9,0 h 17,5 h (850 lt.)
Starter battery	24 Vdc [2x12Vdc-180Ah 1100A CCA(EN)]

IP protection degree	IP 44
Pressure acoustic	72 dB(A) @ 7m
Performance class (ISO 8528)	G3

CONTROL PANEL

DIGITAL CONTROL PANEL

INTELLILITE4 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



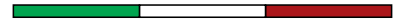
Communication
<ul style="list-style-type: none"> USB port RS232- RS485 (optional) Modbus RTU / TCP (optional) Internet connection with Ethernet (optional) Online control and monitoring on web pages (embedded web server) (optional) GPS / 4G modem (optional) (geographical tracking via WebSupervisor) Internal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

GE 335 FXC

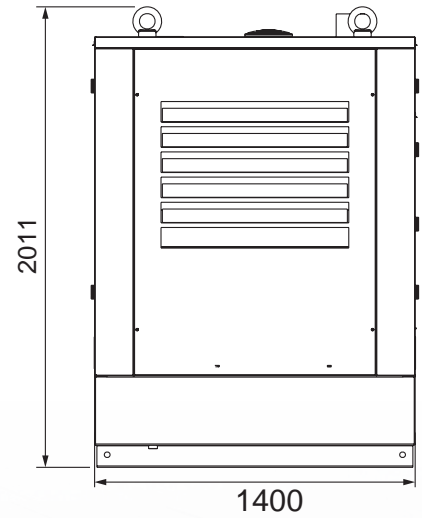
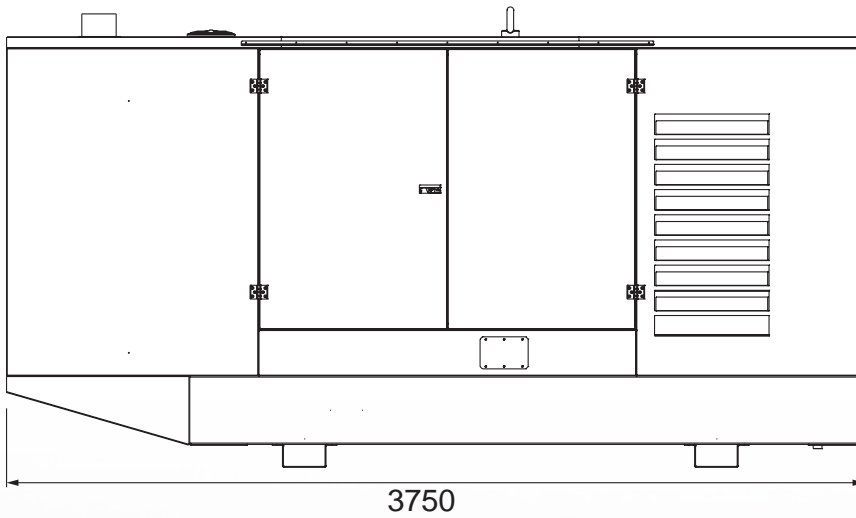
**DRY WEIGHT MACHINE:**

- 3600 kg
- 3800 kg (850 lt.)

Generating set pictured may include optional accessories.

**DIMENSIONS DRAW**

- 3750 x 1400 x 2190 mm (850 lt tank version)





⊕ 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 quencher								√	
Reg. V from panel							√		

⊕ OPTIONS ON REQUEST

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

⊕ AVAILABLE VERSIONS

MANUAL WITHOUT SOCKETS		AUTOMATIC WITHOUT SOCKETS	
CQ0K8056	STANDARD	CQ0K80F6	STANDARD
CQ0J8056 (3A)		CQ0J80F6 (3A)	
CQ0K8056R	PLUS	CQ0K80F6A	HEATER
CQ0J8056R (3A)		CQ0J80F6A (3A)	
CQ0K8056HR	3WAY	CQ0K80F6AR	WINTER
CQ0J8056HR (3A)		CQ0J80F6AR (3A)	
CQ0K8056MR	850L	CQ0K80F6AHR	HEATER + 3WAY
CQ0J8056MR (3A)		CQ0J80F6AHR (3A)	
CQ0K8056AHRU	TOP	CQ0K80F6MR	850L
CQ0J8056AHRU (3A)		CQ0J80F6MR (3A)	
		CQ0K80F6AMR	HEATER + 850L
		CQ0J80F6AMR (3A)	
		CQ0K80F6AMHR	HEATER + 850L
		CQ0J80F6AMHR (3A)	+ 3WAY

MANUAL WITH SOCKETS			
CQ0K80G6R	PLUS	CQ0K80G6MR	850L
CQ0J80G6R (3A)		CQ0J80G6MR (3A)	
CQ0K80G6AR	WINTER	CQ0K80G6CHR	OIL & GAS
CQ0J80G6AR (3A)		CQ0J80G6CHR (3A)	
CQ0K80G6HR	3WAY	CQ0K80G6AHRU	TOP
CQ0J80G6HR (3A)		CQ0J80G6AHRU (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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