

GENERATING SET

GE S-5000 HBM

The images are for reference



The Engine with Built-in Intelligence
IGX

POWER RATINGS

* Stand-By single-phase power (LTP)	4.9 kVA (4.4 kW) / 230V / 21.3A
* Stand-By single-phase power (LTP)	4.9 kVA (4.4 kW) / 115V / 42.6A
* PRP single-phase power	4 kVA (3.6 kW) / 230V / 17.4A
* PRP single-phase power	4 kVA (3.6 kW) / 115V / 34.8A
* COP single-phase power	/
Frequency	50 Hz
Cos φ	0.9

* Output powers according to ISO 8528-1

ENGINE 3000 RPM

4 STROKE OHV, NATURAL ASPIRATED

Model	HONDA GX 270	HONDA iGX 270
* Stand-By net power	5.7 kWm (7.7 hp)	
* PRP net power	4.6 kWm (6.2 hp)	
* COP net power	/	
Cylinders / Displacement	1 / 270 cm³ (0.27 lt.)	
Bore / Stroke	77 / 58 (mm)	
Compression ratio	8.5 : 1	
BMEP (Brake Mean Effective Pressure : LTP - PRP)	/	
Speed governor type	Mechanical	Electronic
FUEL CONSUMPTION		
110 % (Stand-by power)	2.4 lt./h	
100 % to PRP	2.1 lt./h	
75 % to PRP	1.6 lt./h	
50 % to PRP	1.1 lt./h	
COOLING SYSTEM		
Total system cap. - only engine	/	
Fan air flow	/	
LUBRICATION SYSTEM		
Total oil system capacity	/	
Oil capacity in sump	1.1 lt.	
Oil consumption at full load	/	

FEATURES

- Electric Starter with electronic voltage regulation (Vers. iGX)
- Engine shut down for low oil level (oil alert)
- Sockets: 1x230V 32A 2P+T CEE
1x230V 16A 2P+T CEE
1x230V 16A 2P+T Schuko
- Circuit breaker
- Fuel level gauge
- Protective frame and partially covered
- Portable
- Meets EC directives for noise and safety
- AVR version **on request** (standard for iGX version)
- Ready for connection to automatic transfer unit EAS (Vers. iGX)
- Automatischer Starter (Auto Choke) (Vers. iGX)



air cooled



petrol



single phase



manual recoil



electric starter



silenced

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.

EXHAUST SYSTEM

Maximum exhaust gas flow	/
Max. exhaust gas temp.	/
Maximum back pressure	/
External diameter exhaust pipe	/
ELECTRICAL SYSTEM	
Starter motor power	/
Battery charging alternator cap.	/
Cold start	/
With cold start aid	/
AIR FILTER	Dry
Combustion air flow	/
HEAT REJECTED AT FULL LOAD	
To exhaust system	/
To water and oil	/
Radiated to room	/
To charge cooler	/

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ALTERNATOR

SYNCHRONOUS, SINGLE-PHASE, SELF-EXCITED, SELF-REGULATED, BRUSHLESS (WITHOUT AVR)		
SYNCHRONOUS, SINGLE-PHASE, SELF-EXCITED, SELF-REGULATED (WITH AVR)		
	WITHOUT AVR	WITH AVR
Continuous power	4.2 kVA	4.5 kVA
Stand-by power	4.6 kVA	5 kVA
Three phase voltage	230 Vac	
Frequency	50 Hz	
Cos ϕ	1	
Model A.V.R.	/	HVR10E
Voltage regulation acc.	$\pm 5 \%$	$\pm 1 \%$
Sustained short circuit current	3 In	
Transient dip (100% load)	< 15 %	10 %
Recovery time	/	
Efficiency at 100% load	75% (230V - Cos ϕ 1)	76% (230V - Cos ϕ 1)
Insulation	Class H	
Connection - Terminals	Series - N°2	
Electromagnetic compatibility (R.F.I. suppr.)	EN55011	
Waveform distortion - THD	< 6 %	< 5.5 %
Telephone interference - THF	/	

REACTANCES (4.2 kVA - 230 V)	
REACTANCES AVR (4.5 kVA - 230 V)	
Direct axis synchronous - Xd	/
Direct axis transient - X'd	/
Subdirect axis transient - X''d	/
Quadrature axis synchronous - Xq	/
Quadr. axis subtransient - X''q	/
Negative sequence - X2	/
Zero sequence - X0	/
TIME CONSTANTS	
Transient - T'd	/
Subtransient - T''d	/
Open circuit - T'do	/
Armature - Ta	/
Short-circuit ratio Kcc	/
IP protection degree	IP 23
Cooling air flow	0.062/ m³/sec
Coupling I Bearing	Direct J609b - N°1

GENERAL SPECIFICATIONS

Fuel tank capacity	20 lt.
Running time (75% to PRP)	12.5 h
Starter battery	/
IP protection degree	IP 23

* Measured acoustic power LwA (pressure LpA)	95 dB(A) (70 dB(A) @ 7m)
* Guaranteed acoustic power LwA (pressure LpA)	96 dB(A) (71 dB(A) @ 7m)
Performance class (ISO 8528)	G2

* Acoustic power according to European Directive 2000/14/CE

CONTROL PANEL

- Motor switch ON - OFF
- Air control (AA)
- Local-Remote Start (AE) switch
- EAS connector (AE)
- Fuel tap
- Fuel level indicator
- Multifunction digital instrument: Voltmeter - Frequency meter - Total hour meter - Partial hour meter (resettable)
- Circuit breaker
- Output sockets: 1x230V 32A 2P + T CEE
1x230V 16A 2P + T CEE
1x230V 16A 2P + T Schuko
- Earth terminal (PE)
- 12 Vdc output bushings (battery charger)
- 12Vdc output protection fuse

CONTROL PANEL 230/115V

- Motor switch ON - OFF (AA)
- Air control
- Fuel tap
- Fuel level indicator
- Multifunction digital instrument: Voltmeter - Frequency meter - Total hour meter - Partial hour meter (resettable)
- Switch magnetomic
- Circuit breaker
- Output sockets: 1x230V 32A 2P + T CEE
1x115V 32A 2P + T CEE
1x115V 16A 2P + T CEE
- Thermal breakers for socket protection: 1x30A - 1x16A
- Voltage switch: 230 / 115V
- Earth terminal (PE)

WEIGHT - DIMENSIONS AND ACCESSORIES

GE S-5000 HBM



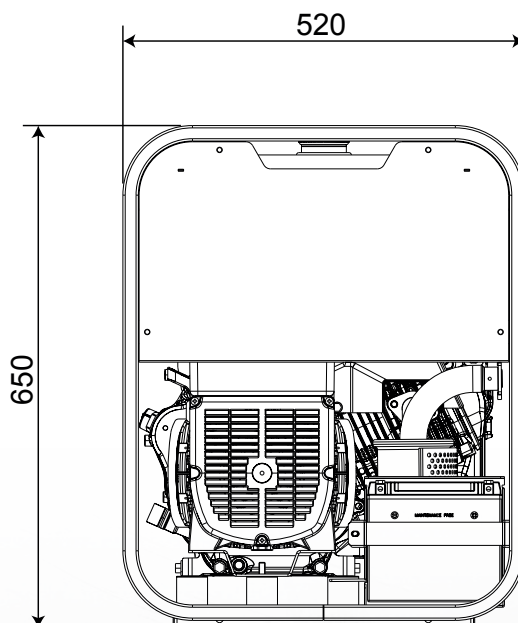
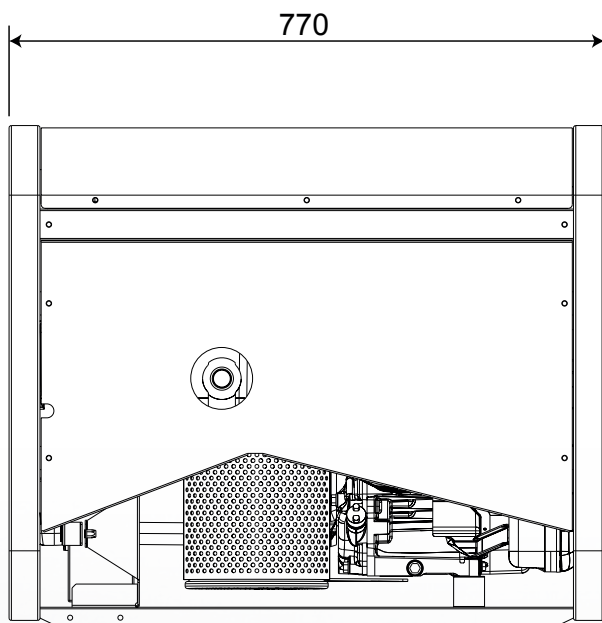
DRY WEIGHT MACHINE:

- 76 Kg

Generating set pictured may include optional accessories.



DIMENSIONS DRAW (mm)



OPTIONS ON REQUEST

- Earthing kit
- Moving trolley CM8
- Automatic transfer unit (AMF) EAS 15 - 806 (AE)



VERSIONS ON REQUEST

- AVR version
- 230 / 115V version
(only for AA version - not compatible with AVR)



FACTORY INSTALLATION OPTIONS

- ELCB-GFI (Ground Fault Interruptor)

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)
2000/14 / EC (Directive Acoustic Emission for machines for use outdoors)
ISO 8528 (Reciprocating internal combustion engine driven alternating current generating sets)



ISO 9001:2015 - Cert. 0192

WARRANTY

All devices are covered by the manufacturer's warranty.

The company reserves the right to change this specification without notice. For further information please contact the sales department.

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