

# 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    | /   |
| <b>ELECTRICAL SYSTEM</b>          |     |
| Starter motor power               | /   |
| Battery charging alternator cap.  | /   |
| Cold start                        | /   |
| With cold start aid               | /   |
| <b>AIR FILTER</b>                 | Dry |
| Combustion air flow               | /   |
| <b>HEAT REJECTED AT FULL LOAD</b> |     |
| To exhaust system                 | /   |
| To water and oil                  | /   |
| Radiated to room                  | /   |
| To charge cooler                  | /   |

## 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 $\phi$                                                                       | 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 $\phi$ 1) | 76% (230V - Cos $\phi$ 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



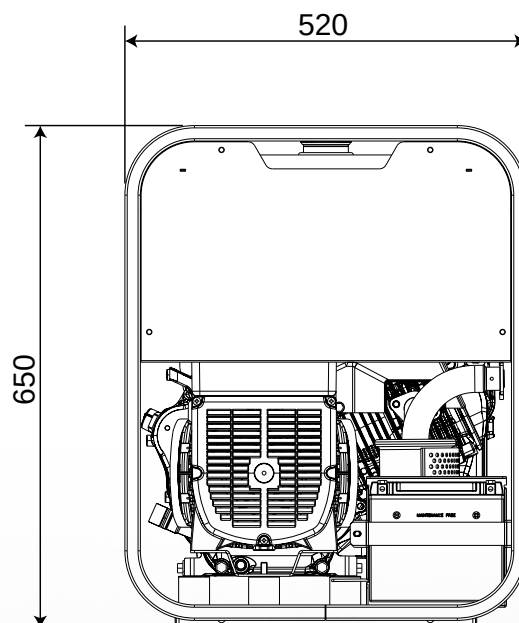
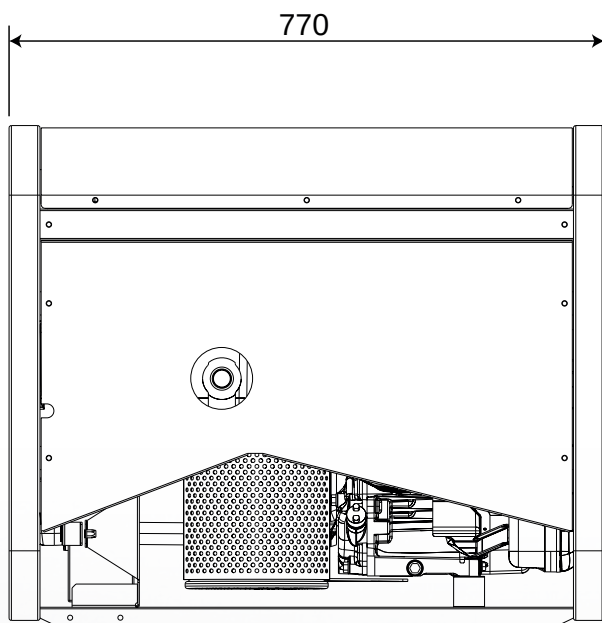
## DRY WEIGHT MACHINE:

- 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.

