

# SOUNDPROOFED GENERATING SETS

# GS 8000

FROM 20 TO 40 kVA

## 8000

The drive units used in restyling the lower range of sound-proofing systems are the consolidated 3 & 4 cylinder engines in the 8000 family. The innovative solutions used for the NEF and Cursor ranges have been adopted in this series by improving qualitative and functional features to the level demanded on the market.



## PERFORMANCES

GENERATING SET MODEL	Duty (1)	50 Hz		60 Hz		LWA <sup>(3)</sup>	Weight
		kVA	kW <sup>(2)</sup>	kVA	kW <sup>(2)</sup>	dB (A)	kg
GS 8000 20M	Prime	20	16	24	19	96.2	1000
	Stand-by	22	17.5	26	21		
GS 8000 30M	Prime	30	24	35	28	96.2	1030
	Stand-by	33	26	39	31		
GS 8000 40M	Prime	40	32	47	38	96.4	1170
	Stand-by	44	35	52	42		

1) Ratings in accordance with ISO 8528 - The nominal power are available after 50 hours running with  $\pm 3\%$  tolerance. The indicated power may change in function of the utilized alternator. For duty at temperature over 27°C and/or altitude over 300 meters must be considered a power derating factor. Contact the Iveco Motors sales organization. - 2) Power factor 0.8. - 3) Sound power measured according to 2000/14/EC (50 Hz - Prime).

### PRIME POWER

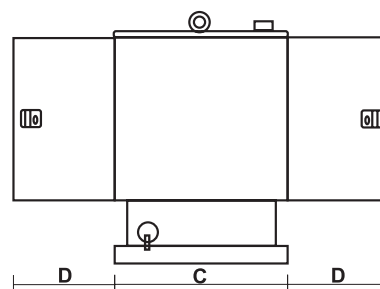
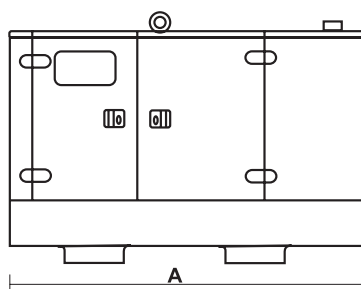
The Prime Power is the maximum power available with varying loads for an unlimited number of hours. The average power output during a 24 h period of operation must not exceed 80% of the declared prime power between the prescribed maintenance intervals and at standard environmental conditions. A 10% overload is permissible for 1 hour every 12 hours of operation.

### STAND-BY POWER

This is the maximum power available for a period of 500 hours/year with a mean load factor of 90% of the declared stand-by power. No kind of overload is permissible for this use.

### CONTINUOUS POWER

Contact the Iveco Motors sales organization.



	20M - 30M	40M
A = mm	2000	2240
B = mm	1410	1490
C = mm	950	950
D = mm	720	720

Fuel tank capacity : 80 liters.

## STANDARD CONFIGURATION

### 1. PRIME MOVER

IVECO MOTORS diesel engine, complying with ISO 8528 standards (we refer you to the relevant Data Sheet for engine characteristics).

### 2. OPERATING CONDITIONS

The set can be used with a maximum outdoor temperature of 27°C and at an altitude of 300 m, without derating.

### 3. ELECTRIC MACHINE

Single-bearing synchronous motor, 4 poles, brushless, IP21 minimum protection level and Class H insulation. Reconnectable 12-wire connections - Tropical impregnation; treatment for humid and saline climates on request - Electronic voltage adjustment.

### 4. CASING

The version with riveted panels painted RAL 5002, can be completely dismantled from the subbase after detaching the exhaust pipe.

There are doors on both sides, closed by locks, which give excellent access for engine maintenance.

The front grille can be dismantled to extract the sound-proofed diaphragms (on the version with the front air outlet) and to allow the radiator to be cleaned from the front.

### 5. SUBBASE

This comprises a fully sealed liquid drainage tank.

The tank is built into the subbase, and has a capacity that allows the unit to function for at least 8 hours in Prime Power and is equipped with two fuel level indicators: the first visual type directly on the tank and the second electrical on the control panel.

The engine-generator unit is anchored to the under-base by special elastic expansion bolts which eliminate any vibration to the structure.

### 6. AIR OUTLET

There are two possible configurations:

- Frontal.
- Upwards.

### 7. ELECTRICAL SYSTEM

The system which can be 12 V (standard) or 24 V (optional), envisages all the electrical connections between the engine, the generator and the electrical control panel.

The electrical panel is located in the right side of the housing. Power wires inlet are foreseen in the rear part of the housing. An aluminium plate allows special cable clips to be inserted. All configurations include an external emergency pushbutton.

### 8. ELECTRICAL CONTROL PANEL

The various configurations envisage a version with automatic starting without a mains connection, and a version with manual starting.

### 9. HANDLING

Two different solutions have been adopted to move the complete unit:

- 1 central lifting point
- Fork-lift pockets

### 10. DOCUMENTATION

Each generating set comes complete with a series of User Manuals.

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