

# SOUNDPROOFED GENERATING SETS

# GS NEF

FROM 45 TO 100 kVA

## NEF

Iveco Motors soundproofed generating sets are the result of research designed to ensure high quality and sturdy products offering special features in line with market demand.

Operation at high external temperatures, impressive service autonomy and environment-friendly solutions are the goals attained in the development of this product.

The drive systems used are based on the NEF 4-cylinder engine family.



## PERFORMANCES

GENERATING SET MODEL	Duty (1)	50 Hz		60 Hz		LWA <sup>(3)</sup> dB (A)	Weight kg
		kVA	kW (2)	kVA	kW (2)		
GS NEF 45M	Prime	45	36	50	40	96.5	1535
	Stand-by	50	40	55	44		
GS NEF 60M	Prime	60	48	66	53	96.7	1585
	Stand-by	66	53	73	58		
GS NEF 75M	Prime	75	60	75	60	96.8	1585
	Stand-by	82	66	82	66		
GS NEF 85M	Prime	85	68	100	80	96.8	1645
	Stand-by	94	75	110	88		
GS NEF 100M	Prime	100	80	110	88	96.9	1645
	Stand-by	110	88	121	97		

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 40°C and/or altitude over 1000 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

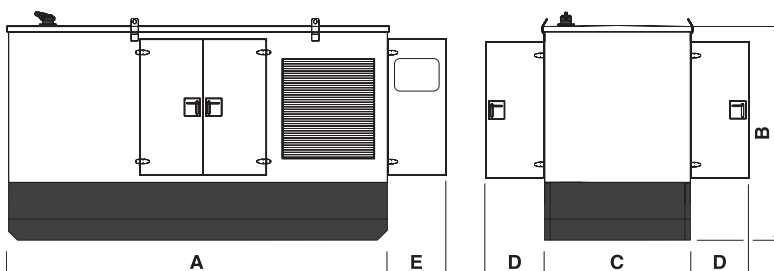
The Prime Power is the maximum power available with varying loads for an unlimited number of hours. The average power output during a 24 h period of operation must not exceed 80% of the declared prime power between the prescribed maintenance intervals and at standard environmental conditions. A 10% overload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



A = 2950 mm  
B = 1660 mm  
C = 1100 mm  
D = 710 mm  
E = 610 mm

Fuel tank capacity : 180 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 40°C and at an altitude of 1000 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 double 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.

Slides are envisaged under the base so that the unit can be handled on rollers.

### 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 and the power terminals are located 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

Several solutions are envisaged to move the complete unit:

- 4 lifting points
- 1 optional lifting point
- Fork-lift pockets
- Towing on rollers.

### 10. DOCUMENTATION

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

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