

## NEF

The 4 and 6 cylinder Diesel engines of the NEF family, are the most versatile and efficient offered by Iveco Motors in genset duty market engines.

The traditional injection systems coupled to full electronic control of the fuel feed system, allow a wide power range and a low gaseous emission level in accordance with European 2004/26/EC and American EPA CARB directives.



## PERFORMANCES

RATINGS <sup>1)</sup>	1500 rpm		1800 rpm	
	PRIME	STAND-BY	PRIME	STAND-BY <sup>3)</sup>
Rated output <sup>2)</sup>	53.5	59	59	65

1) Ratings in accordance with ISO 8528 - 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) Net power at flywheel available after 50 hours running with a  $\pm 3\%$  tolerance.

3) EPA / TIER 2 homologated power.

### 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.

## TECHNICAL DATA

Engine model	NEF45 SM1		
Diesel 4 stroke - Injection	direct, mechanical		
Nb. of cylinders and arrangement	4, in line		
Speed governor	mechanical		
Total displacement	liters	4.5	
Bore x Stroke	mm	104 x 132	
Aspiration	turbocharged		
Cooling system	liquid (water + 50% Parafllu 11)		
Flywheel housing / Flywheel	SAE3 / 11" ½		
Flywheel rotation	CCW		
Lube oil specifications	ACEA E3 - E5		
Lube oil consumption	< 0,1% of fuel consumption		
Fuel specifications	EN 590		
Oil and filters interval for replacement	hours	600	

	RPM	1500	1800
Fuel consumption at :			
100% load l/h (g/kWh)		13.7 (210.8)	15.5 (213.4)
80% load l/h (g/kWh)		10.2 (210.2)	11.7 (214.5)
50% load l/h (g/kWh)		7.0 (216.3)	8.2 (226.6)

Coolant capacity:		liters	
engine only		~ 8.5	
engine + radiator		~ 18.5	

ATB (without canopy)	°C	50
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### No remote cooling radiator allowed.

Lube oil total system capacity including pipes, filters etc. :	liters	~ 12.8
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Electrical system	12 Vcc
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Starting batteries :		
recommended capacity	Ah	1 x 100
discharge current (EN 50342)	A	650

Cold starting :		
without air preheating	°C	-10
with air preheating	°C	-25

Engine dry weight	kg	~ 450
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## SCOPE OF SUPPLY

Iveco Motors engine NEF45 SM1 equipped with :

- Mounted radiator .
- Mounted belt driven pusher fan.
- Fan guard.
- Mounted air filter with replaceable cartridges.
- Fuel filter.
- Primary fuel filter/water separator.
- Replaceable oil filter.
- Front engine mounting brackets.
- Flywheel housing SAE 3 and flywheel 11" ½.
- Re-directable exhaust gas elbow.
- Recircled oil breather system.
- Oil dipstick.
- HWT and LOP sensors.
- 12 Vdc electrical system.
- User's handbook.

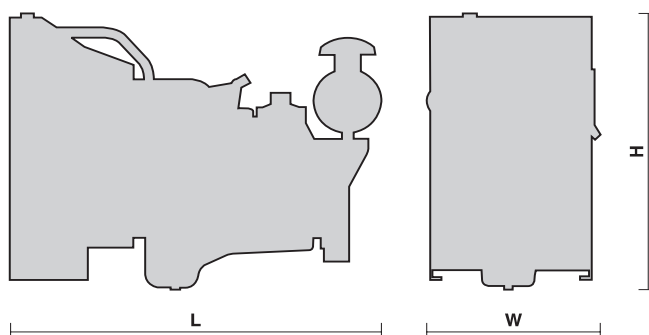
THE ENGINE IS SUPPLIED WITHOUT LIQUIDS.

## OPTIONAL EQUIPMENT

On request the engine can be supplied with :

- Oil drain pump.
- Oil drain valve.
- 120/230 Volt water jacket heater.
- WT and OP sensors for gauges.
- Low water level sensor.
- Turbo and exhaust gas guards.
- Exhaust gas flexible joint.
- 24 Vdc electrical system.

## OVERALL DIMENSIONS



L = 1259 mm

W = 657 mm

H = 1016 mm

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