

GENSET ENGINE

NEF60 TE2

COMMON RAIL



PERFORMANCES

RATINGS		50 Hz		60 Hz	
		PRIME	STAND-BY	PRIME	STAND-BY
Rated output	kWm	175	193	195	215

Ratings in accordance with ISO 8528 - Standard reference conditions : 25°C air inlet temperature ; 1000 mbar ; 30% relative humidity - Power factor 0.8

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.

TECHNICAL DATA

Engine model	NEF60 TE2		Cooling system	liquid (water + 50% Paraflu I I)
Diesel 4 stroke - Injection type	Unijet C.R.		Lube oil specifications	ACEA E3 - E5
N° of cylinders	6 in line		Lube oil consumption	< 0.1% of fuel consumption
Total displacement	L	5.9	Fuel specifications	EN 590
Bore x Stroke	mm	102 x 120	Speed governor	electronic (G3 class)
Compression ratio	17.5 : 1		Engine rotating mass moment of inertia	kg.m ² 1.02
Aspiration	turbocharged aftercooled		Flywheel housing / Flywheel	SAE3 / 11" ½

TECHNICAL DATA

	RPM	1500	1800	
BMEP	kPa	23.7	22.0	
Fuel consumption at :	100% load	l/h	45	48
	75% load	l/h	31.5	36
	50% load	l/h	22.5	24.5

AIR INDUCTION SYSTEM

	m ³ /h	640	810
Intake air flow.			
Maximum suggested intake restriction :			
	with clean air filter	kPa	2.45
	with dirty air filter	kPa	4.9

INJECTION

Injection system	Common Rail		
Max speed drop steady conditions	isochronous		
Max fuel feed pump suction head	m	3	

EXHAUST SYSTEM

Exhaust gas flow	kg/h	505	565
Max exhaust temperature at full load (at 25°C - after turbine)	°C	505	565
Max allowable exhaust backpressure	kPa	4.9	

COOLING SYSTEM

Coolant capacity :	engine only	liters	~ 12	
	engine + radiator	liters	~ 26	
Cooling water flow rate	l/min	141	169	
Max allowable pressure drop on external water circuit	Pa	9.8	11.8	
Max allowable residual pressure after radiator	Pa	147		
Pusher fan air flow	m ³ /s	4.7	5.5	
Pusher fan head (static)	Pa	490.3		
Pusher fan absorbed power	kW	8.6	14	
Max engine outlet water temperature (Alarm)	°C	100		
ATB (without canopy) - nominal rating	°C	50		

No remote cooling radiator allowed

LUBRICATION SYSTEM

Lube oil total system incl. sump, filters etc.	kg (l)	~ 16 (17.5)	
Oil capacity of standard sump :			
	at min. level	kg (l)	~ 8 (8.7)
	at max level	kg (l)	~ 14 (15.2)
Maximum oil temperature	°C	105	
Oil pressure (min/max)	Pa	11.8/44	

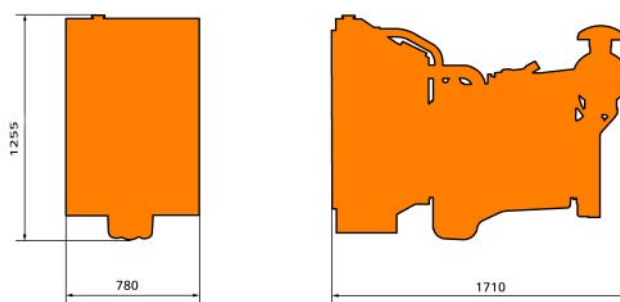
HEAT REJECTION (at full load conditions)

	kcal/kWh	419	382
Engine to coolant (water + oil)			
Engine to exhaust	kcal/kWh	600	612
Radiated to ambient	kcal/kWh	55	55
Engine supercharged air to coolant	kcal/kWh	126	150

ELECTRIC STARTING SYSTEM

Cranking motor rating	kW	3	
Auxiliary voltage	Vcc	12	
Battery-charge alternator	A	90	
Starting batteries :			
	Recommended capacity	Ah	180
	Discharge current	A	800

DIMENSIONS AND WEIGHTS



Engine dry weight, standard configuration kg 630
 Engine dry weight, without radiator kg 544

Local distributor



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