

POWER GENERATION NEF series

GS NEF 100

100 kVA (50 Hz) @ 1500 rpm
110 kVA (60 Hz) @ 1800 rpm

Stage II

SPECIFICATIONS

Engine Model	NEF45TM2		
Cylinder Arrangement	4L		
Valves per cylinder (n°)	2		
Thermodynamic Cycle	diesel 4 stroke		
Injection System	D		
Air Handling	TAA		
Flywheel housing (type)	SAE 3		
Flywheel	11" 1/2		
Specific fuel consumption at:	1500		1800
- Stand-By g/kWh (l/h) [kg/h]	209,2 (24,4) [20,5]	221,8 (29) [24,4]	
- Full load g/kWh (l/h) [kg/h]	207,7 (22) [18,4]	221 (26,3) [22,1]	
- 80% g/kWh (l/h) [kg/h]	203,5 (16,2) [13,6]	220 (19,6) [16,5]	
- 50% g/kWh (l/h) [kg/h]	206,5 (11) [9,2]	226 (13,5) [11,3]	
Fuel specifications	EN 590		
Fuel tank capacity (l)	240		
Total Displacement (l)	4,5		

WEIGHT AND DIMENSIONS

Dimensions (LxWxH)	2800 X 1130 X 1760
Dry Weight (Weight with oil, water and without fuel)	Kg 1553

PERFORMANCE

Ratings	1500 rpm		1800 rpm	
	PRIME	STAND-BY	PRIME	STAND-BY
Continuous Power kVA (kWe)	100 (80)	110 (88)	110 (88)	121 (97)

Performance according to ISO 8528 conditions. Power factor 0.8.

SOUND POWER

Measured at 7m dB(A)	70
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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 24h 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: The stand-by power 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 overloads is permissible for this use.

CONTINUOUS POWER: Contact the FPT sales organization.

Legend

Arrangement	Air Handling	Injection System
L (in line) V (90° "V" configuration)	V (90° "V" configuration) TC (Turbocharged) NA (Naturally Aspirated)	M (Mechanical) ECR (Electronic Common Rail) EUI (Electronic Unit Injector)

FOR INFORMATION ON THE AVAILABLE RATINGS NOT LISTED IN THIS DOCUMENT PLEASE CONTACT THE FPT INDUSTRIAL SALES NETWORK OR VISIT OUR SITE WWW.FPTINDUSTRIAL.COM



Main Features

PRIME MOVER

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

OPERATING CONDITIONS

The set can be used with a maximum outdoor temperature of 40°C and at an altitude of 1000 m, without derating.

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.

SUB-BASE

This comprises a fully sealed high capacity fuel tank. The tank is built into the subbase, 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. A leakage basin can be included on request.

RELIABILITY

- High Quality level of components
- Top Air Outlet location (frontal on request - 75dB(A))

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.

ELECTRICAL CONTROL PANEL

- Key start control panel: MRS72
- Automatic control panel: AMF74
- 4P circuit breaker (3P on request)

MAINTENANCE SERVICEABILITY

- Easy access for maintenance operations
- 600 hours oil and filters change intervals
- 4 fork lift pockets
- 2 lifting points
- Single Point Lifting (Optional)

DOCUMENTATION

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

FPT INDUSTRIAL OFFERS THE WIDEST AVAILABILITY OF ENGINE BUILD OPTIONS TO CUSTOMER SPECIFIC REQUIREMENTS WITHIN THE ENGINE SUPPLY. TO FIND OUT MORE ABOUT THE CONFIGURATIONS AND ACCESSORIES WHICH ARE AVAILABLE

