



# دیزل نیرو

واردات و فروش انواع دیزل ژنراتورهای صنعتی

## SPECIFICATIONS

Engine Model	N45 TM2A		
Cylinder Arrangement	4L		
Valves per cylinder (n°)	2		
Thermodynamic Cycle	Diesel 4 stroke		
Injection System	M		
Air Handling	TAA		
Flywheel housing (type)	SAE 3		
Flywheel	11" 1/2		
Specific fuel consumption at:	<b>1500</b>	<b>1800</b>	
- 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)	180		
Total Displacement (L)	4.5		

## WEIGHT AND DIMENSIONS

Dimensions (LxWxH)	2300 X 730 X 1475
Dry Weight with standard accessories (may change in function of the alternator)	Kg 1160

## PERFORMANCE

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

Performance according to ISO 8528 conditions.  
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 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	InjectionSystem
L (in line) V (90° "V" configuration)	TAA (Turbocharged with aftercooler) 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](http://WWW.FPTINDUSTRIAL.COM)

## Main Features

### 1. ENGINE DRIVE

FPT heavy duty diesel engine. Performances in accordance with ISO 8528, G2 class.

### 2. COOLING SYSTEM

Radiator and pusher fan dimensioned. for tropical climates. The radiator is fixed to the base frame and is equipped with adequate security protection guards.

### 3. ALTERNATOR

Single bearing synchronous brushless alternator, four poles, mechanical protection degree IP21 and H class insulation. Tropical climates impregnation; on request, humid and corrosive climates treatment. All alternators are equipped with electronic voltage regulator and meet the following standards : CEI2-3, BS4999-5000, VDE0530, IEC34-1.

### 4. MOUNTING ARRANGEMENT

#### 4.1 Base Frame

The complete generating set is mounted on a modern design and high quality steel fabricated base frame. In the catch all base frame are located the fuel tank and the batteries. Anti vibration pads are fitted between engine-alternator and base frame ensuring complete vibration isolation of rotating assemblies.

#### 4.2 Coupling

Engine and alternator are directly coupled.

### 5. FUEL SYSTEM

Thermoplastic fuel tank with a total capacity of 180 liters is provided on the base frame. The fuel tank is equipped with a visual fuel level indicator.

### 6. CONTROL PANEL

Manual and Automatic control panels are available in different configurations.

### 7. OPTIONS

Generating set can be supplied with different options to meet the specific requirements of the customer.

### 8. DOCUMENTATION

A full set of operation and maintenance manuals are provided with each unit.

### 9. FACTORY TESTS

Generating set is subject to a strict load test before delivery. A test certificate can be provided on request.

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