



**FPZ 100**

## Industrial Range

- 1) Ratings in accordance with ISO 8528. For duty at temperature over 50°C and/or altitude over 1000 meters must be considered a power derating factor.
- 2) Net power at flywheel available after 50 hours running with a ±3% tolerance

**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.



SILENT PLUS



DIESEL



WATER COOLED



3 PHASE

Hz

50 Hz

## About Generator

Service	Unit	PRP	ESP
Power	kVA	104	115
Power	kW	83	92
Rated Speed	RPM	1500	
Standard Voltages	V	400 / 230	
Available Voltages	V	230/ 132	230 V(t)
Rated at Power Factor	V	CosØ	0.8

## Engine Dimensions

Length (L)	mm	1367
Width (W)	mm	753
Height (H)	mm	1085
Dry Weight	kg	500

## Engine Specification @ 1500 RPM

Rated Output-net	kWm	87.5
Rated Output-net (ESP)	kWm	96.5
Manufacturer	FPT_IVECO	
Model	NEF45TM2A	
Engine Type	4-Stroke Diesel	
Injection Type	Direct	
Aspiration Type	TCA	
Number of Cylinders	4-L	
Bore & Stroke	mm	104 x132
Displacement	L	4.5
Compression Ratio	17.5:1	

## Fuel Consumption

Fuel Consumption ESP	L/h	24.4
Fuel Consumption PRP @ 100%	L/h	22
Fuel Consumption PRP @ 80%	L/h	16.2
Fuel Consumption PRP @ 50%	L/h	11
Lube Oil Consumption with Full Load	L	< 0.1% of fuel consumption
Total Oil Capacity	L	12.8
Total Coolant Capacity	L	18.5
Governor Type	Mechanical	
Air Filter	Dry	

## Alternator Specifications

Manufacturer	Stamford / Leroy Somer	
Model	UCI224E/TAL042H	
Number of Poles	4	
Connection Type (Standard)	Star Series	
Insulation Class	H	
Encloser	IP23	
Exciter System	Self Excitation Brush Less	
Bearing	Single Bearing	

- Diesel Engine
- 4 Stroke cycle
- Water Cooled
- 12V Electric Starting System
- Water Separator Filter (No Visible Level)
- Dry Air Filter
- Radiator with Pusher Fan
- Mechanical Governor
- Hot Parts Protection
- Moving Parts Protection
- HTW Sender (Optional)
- Radiator Water Level Sensor
- Electronic AVR
- Flexible dick type Coupling System
- Standard (vacuum impregnation)
- Coating Type
- IP23 Protection

## Application Data

### Exhaust System

Gas Flow at stand-by Power	kg/h	533
Max Temperature at PRP (25°C)	°C	535
Max Allowable Back Pressure	kPa(mbar)	6(60)
Energy to Exhaust	kW	731.6

### Necessary Amount of Air/ Air Intake System

Air Consumption @ 100% of Load	m <sup>3</sup> /h (Kg/h)	617(512.5)
Air Intake restriction, Clean filter	kPa (mbar)	5(50)

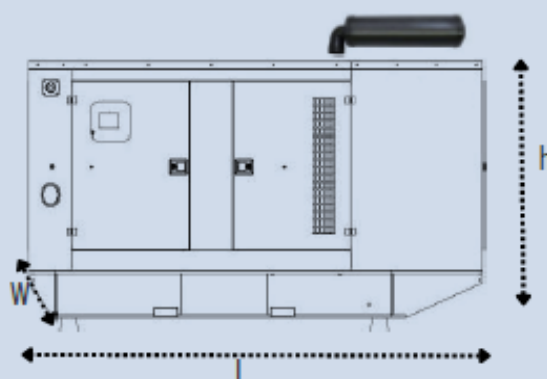
### Lubrication System

Oil Sump Capacity (Max)	liter	8.5
Oil System Capacity	liter	12.8
Oil Temperature	°C	120
Servicing Interval	Hrs	500

- Manhole to fill the radiator.
- Manhole for fuel tank cleaning and drainage
- Oversized chassis to protect the bodywork.
- Slide carriage and brackets for transportation with Fork Lifter
- Tilting cap in the exhaust
- Anti-vibration shock absorbers
- Fuel level gauge
- Bodywork made from high quality steel plate.
- High mechanical strength
- Low noise emissions level
- Soundproofing
- Epoxy powder coating
- Full access for maintenance (water, oil and filters, no need to remove the canopy)
- Reinforced lifting hooks for crane hoisting
- Steel residential silencer

## Generator Dimensions

Length (L)	mm	2286
Width (W)	mm	1127.76
Height (H)	mm	1463.04
Silencer	mm	335.28
Fuel Tank Capacity	Ltrs	105



- External filling of the fuel tank with safety key
- Emergency stop button (double emergency)
- Safety Module DeepSea
- Stop protection: Interior on the panel
- Exterior on the bodywork
- Mechanized for power cable output.
- Door with window to visualize control panel, alarms and measurements.
- IP Protection according to ISO 8528
- Certified with ISO9001, EDB, PEC & E-in-C