

FPZ-100

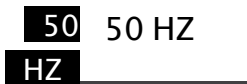


Industrial Range

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.



About Generator

Service	Unit	PRP	ESP
Power	kVA	100	110
Power	kW	80	88
Rated Speed	r.p.m	1500	
Standard Voltages	V	400/230	
Available Voltages	V	230/132 . 230 V(t)	
Rated at Power Factor	CosØ	0.8	

Engine Dimensions

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

Engine Specifications @ 1500 r.p.m

Rated Output-net (PRP)	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

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
Weight	kg	1175

Application Data

Exhaust System

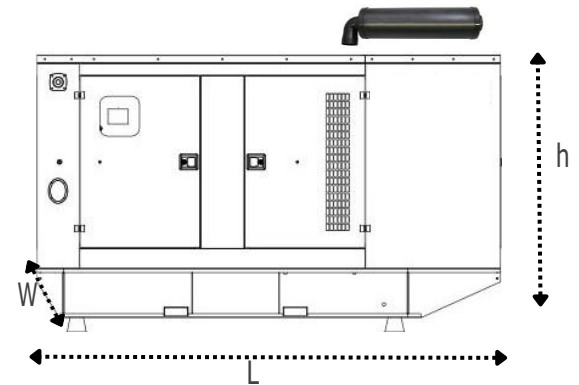
Gas Flow at stand-by Power	kg/h	533
Max Temperature at PRP (25°C)	°C	535
Max Allowable Back Pressure	kPa(mbar)	6(60)
Energy to Exhaust	kW	731.6

Necessary Amount of Air/ Air Intake System

Air Consumption @ 100% of Load	m ³ /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
- 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