

FPZ-50

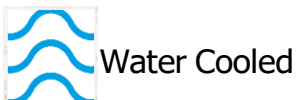
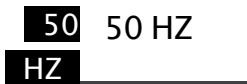


Industrial Range

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	50	55
Power	kW	40	44
Rated Speed	r.p.m	1500	
Standard Voltages	V	400/230	
Available Voltages	V	230/132 . 230 V(t)	
Rated at Power Factor	Cos Ø	0.8	

Engine Dimensions

Length (L)	mm	1035
Width (W)	mm	640
Height (h)	mm	965
Dry Weight	kg	400

Engine Specifications @ 1500 r.p.m

Rated Output-net (PRP)	kWm	45
Rated Output-net (ESP)	kWm	49.7
Manufacturer	FPT_IVECO	
Model	NEF45AM2	
Engine Type	4-Stroke Diesel	
Injection Type	Direct	
Aspiration Type	Naturally Aspirated	
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	14.6
Fuel Consumption PRP @ 100%	L/h	11.6
Fuel Consumption PRP @ 80%	L/h	9.8
Fuel Consumption PRP @ 50%	L/h	6.2
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

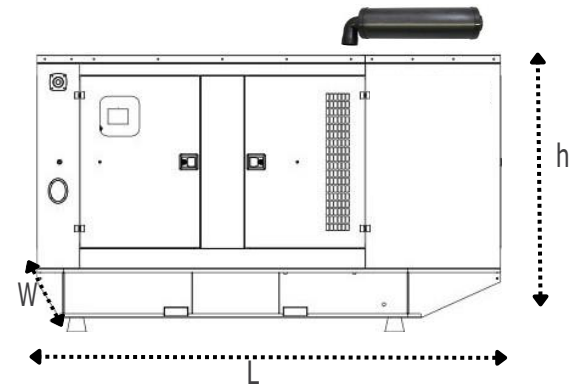
Manufacturer	Stamford / Leroy Somer	
Model	UCI224D/ TAL042F	
Number of Poles	4	
Connection Type (Standard)	Star Series	
Insulation Class	H	
Encloser	IP23	
Exciter System	Self Excitation Brush Less	
Bearing	Single Bearing	

- 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	1798.32
Width (W)	mm	975.36
Height (h)	mm	1341.12
Silencer	mm	335.28
Fuel Tank Capacity	Ltrs	105
Weight-DRY	kg	911



Application Data

Exhaust System

Gas Flow at stand-by Power	kg/h	211
Max Temperature at PRP (25°C)	°C	504
Max Allowable Back Pressure	kPa(mbar)	10(100)
Energy to Exhaust	kW	658

Necessary Amount of Air/ Air Intake System

Air Consumption @ 100% of Load	m ³ /h (Kg/h)	170(200)
Air Intake restriction, Clean filter	kPa (mbar)	2(20)

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