



# HIMOINSA

# HRFW-100 T5

RENTAL RANGE  
Powered by FPT\_IVECO



SERVICE		PRP	ESP
POWER	kVA	100	109
POWER	kW	80	87
RATED SPEED	r.p.m.	1.500	
STANDARD VOLTAGE	V	400/230	
AVAILABLE VOLTAGES	V	230 - 230/132	



## RENTAL RANGE

HIMOINSA Company with quality certification ISO 9001

HIMOINSA gensets are compliant with EC mark which includes the following directives:

- 2006/42/CE Machinery safety.
- 2014/30/UE Electromagnetic compatibility.
- 2014/35/UE electrical equipment designed for use within certain voltage limits
- 2000/14/EC Sound Power level. Noise emissions outdoor equipment. (amended by 2005/88/EC)
- 97/68/EC Emissions of gaseous and particulate pollutants. (amended by 2002/88/EC & 2004/26/EC)
- EN 12100, EN 13857, EN 60204

Ambient conditions of reference according to ISO 8528-1:2018 normative: 1000 mbar, 25°C, 30% relative humidity.

Prime Power (PRP):

According to ISO 8528-1:2018, Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output (Ppp) over 24 h of operation shall not exceed 70 % of the PRP.

Emergency Standby Power (ESP):

According to ISO 8528-1:2018, Emergency standby power is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 h of operation shall not exceed 70 % of the ESP

G2 class load acceptance in accordance with ISO 8528-5:2013

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## SOUNDPROOFED RENTAL



D10R



WATER-COOLED



THREE PHASE



50 HZ



STAGE 3A



DIESEL

Himoinsa has the right to modify any feature without prior notice.

Weights and dimensions based on standard products. Illustrations may include optional equipment.

Technical data described in this catalogue correspond to the available information at the moment of printing.

The illustrations and images are indicative and may not coincide in their entirety with the product.

Industrial design under patent.





## Engine Specifications | 1.500 r.p.m.

Rated Output (PRP)	kW	89
Rated Output (ESP)	kW	98
Manufacturer	FPT_IVECO	
Model	NEF45TE2F	
Engine Type	4-stroke diesel	
Injection Type	Direct, common rail	
Aspiration Type	Turbocharged and after-cooled	
Number of cylinders and arrangement	4-L	
Bore and Stroke	mm	104 x 132
Displacement	L	4,5
Cooling System	Liquid (water + 50% glycol)	
Lube Oil Specifications	ACEA E3 - E5	
Compression Ratio	17,5:1	

Fuel Consumption ESP	l/h	24,7
Fuel Consumption 100% PRP	l/h	22,6
Fuel Consumption 80 % PRP	l/h	18,5
Fuel Consumption 50 % PRP	l/h	13,4
Lube oil consumption with full load	0,1 % of fuel consumption	
Total oil capacity including tubes, filters	L	12,8
Total coolant capacity	L	18,5
Governor	Type	Electrical
Air Filter	Type	Dry



- Diesel engine
- 4-stroke cycle
- Water-cooled
- 12V electrical system
- Water separator filter (no visible level)
- Dry air filter
- Radiator with pusher fan
- HTW sender
- LOP sender
- Radiator water level sensor
- Electronic governor
- Hot parts protection
- Moving parts protection



## Generator Specifications | STAMFORD

Manufacturer	STAMFORD	
Poles	No.	4
Connection type (standard)	Star-series	
Mounting type	S-3 11*1/2	
Insulation	Class	H class
Enclosure (according IEC-34-5)	IP23	

Exciter system	Self-excited, brushless
Voltage regulator	A.V.R. (Electronic)
Bracket type	Single bearing
Coupling system	Flexible disc
Coating type	Standard (Vacuum impregnation)



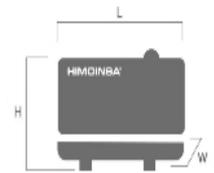
- Self-excited and self-regulated
- IP23 protection
- H class insulation





## WEIGHT AND DIMENSIONS

		Standard Version	High Capacity version	High Capacity version	Optional version
Length (L)	mm	2.810	2.810	2.810	2.810
Height (H)	mm	1.782	1.928	2.201	1.782
Width (W)	mm	1.150	1.150	1.150	1.150
Maximum shipping volume	m <sup>3</sup>	5,76	6,23	7,11	5,76
Weight with liquids in radiator and sump	Kg	1775	1925	2055	1795
Fuel tank capacity	L	240	450	850	240
Autonomy	Hours	13	24	46	13
Sound pressure level	dB(A)@7m	68 ± 2,4	68 ± 2,4	68 ± 2,4	68 ± 2,4
		Plastic tank	Steel tank	Steel tank	Steel tank



## APPLICATION DATA

### EXHAUST SYSTEM

Maximum exhaust temperature	°C	460
Maximum allowed back pressure	kPa	5
Exhaust Flange Size (external diameter)	mm	90
Heat dissipated by exhaust pipe	KCal/Kwh	608

### NECESSARY AMOUNT OF AIR

Intake air flow	m <sup>3</sup> /h	525
Cooling Air Flow	m <sup>3</sup> /s	2,2
Alternator fan air flow	m <sup>3</sup> /s	0,514

### STARTING SYSTEM

Starting power	kW	3
Starting power	CV	4,08
Recommended battery	Ah	100
Auxiliary Voltage	Vdc	12

### FUEL SYSTEM

Fuel Oil Specifications		Diesel
Fuel Tank	L	240
Other fuel tank capacities	L	450, 850, 240



## Soundproofed version

- Steel chassis
- Manhole to fill the radiator
- Pre-installation or niche to house the quick connection hydraulic fittings for fuel transfer
- Anti-leakage chassis, predisposed to retain liquids (retention tray)
- Manhole for fuel tank cleaning and drainage
- Manhole for chassis cleaning
- Oversized chassis to protect the bodywork
- Slide carriage and brackets for transportation with forklift
- Tilting cap in the exhaust
- Anti-vibration shock absorbers

- Chassis with integrated fuel tank
- Fuel level gauge
- Bodywork made from high quality steel plate
- High mechanical strength
- Low noise emissions level
- Soundproofing provided by high-density volcanic rock wool
- Epoxy polyester 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 -35db(A) attenuation.

- Oil sump extraction kit
- Versatility to assemble a high capacity chassis with a metallic fuel tank
- External filling of the fuel tank with safety key
- Emergency stop button (double emergency 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
- Pressure locks
- IP Protection according to ISO 8528-13:2016
- 3 way valve for external fuel supply (available in 1/2" and 3/8" fittings) (Optional).
- Fuel transfer pump (Opcional).