

Generating Rates

SERVICE		PRP	STANDBY	
Power	kVA	100	107	
Power	kW	79	86	
Rated Speed	r.p.m.	1.500		
Standard Voltage	V	400/230		
Available Voltages	V	230 - 230/132		
Rated at power factor	Cos Phi		0,8	

HIMOINSA Company with quality certification ISO 9001

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

- 2006/42/CE Machinery safety.
 2006/95/EC Low voltage.
- 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)
- EN 12100, EN 13857, EN 60204

Ambient conditions of reference according to ISO 8528-1:2005 normative: 1000 mbar, 25°C, 30% relative humidity.

Prime Power (PRP)

R

According to ISO 8528-1:2005, 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 8528-1:2005, 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

HIMOINSA HEADQUARTERS:

Fábrica: Ctra. Murcia - San Javier, Km. 23,6 | 30730 SAN JAVIER (Murcia) Spain Tel.+34 968 19 11 28 Fax +34 968 19 12 17 Fax +34 968 19 04 20 info@himoinsa.com www.himoinsa.com

Manufacture facilities: SPAIN • FRANCE • INDIA • CHINA • USA • BRASIL

Subsidiaries:

ITALY | PORTUGAL | POLAND | GERMANY | SINGAPORE | UAE | MEXICO | PANAMÁ | ARGENTINA | UK

01





HFW-100 T5 INDUSTRIAL RANGE Standard soundproofing Powered by FPT_IVECO

Engine Specifications 1.500 r.p.m.

ENGINE		PRP	STANDBY
Rated Output	kW	87,5	96,2
Manufacturer		FPT_I	VECO
Model		NEF4	5TM2A
Engine Type		4-strok	e diesel
Injection Type		Dir	ect
Aspiration Type		Turbocharged a	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 Standby	l/h	24,4	
Fuel Consumption 100% PRP	l/h	22	
Fuel Consumption 80 % PRP	l/h	16,2	
Fuel Consumption 50 % PRP	l/h	11	
Lube oil consumption with full load		0,5 % of fuel consumption	
Total oil capacity including tubes, filters	L	12,8	
Total coolant capacity	L	18,5	
Governor	Туре	Mechanical	
Air Filter	Туре	Dry	
Inner diameter exhaust pipe	mm	70,3	

Generator

Generator				
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)		





HFW-100 T5 INDUSTRIAL RANGE Standard soundproofing Powered by FPT_IVECO

Application Data

Exhaust System		
Maximum exhaust temperature	٥C	535
Exhaust Gas Flow	Kg/s	0,148
Maximum allowed back pressure	kPa	5
Exhaust Flange Size (external diameter)	mm	90
Heat dissipated by exhaust pipe	KCal/Kwh	731,6

Necessary Amount Of Air		
Intake air flow	m3/h	427
Cooling Air Flow	m3/s	2,2
Alternator fan air flow	m3/s	0,514

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

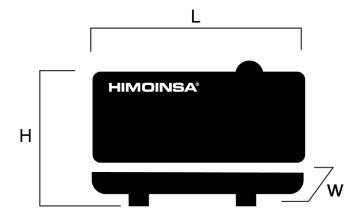
Fuel System		
Fuel Oil Specifications		Diesel
Fuel Tank	L	288
Other fuel tank capacities	L	450, 850





HFW-100 T5 INDUSTRIAL RANGE Standard soundproofing Powered by FPT_IVECO

Dimensions



Weight and Dimensions			
(L) Length	mm	2.750	
(н) Height	mm	1.760	
(W) Width	mm	1.100	
Maximum shipping volume	m3	5,32	
(*) Weight with liquids in radiator and sump	Kg	1.689	
Fuel tank capacity	L	288	
Autonomy	Hours	18	
Sound pressure level	dB(A)@7m	69 ± 2,3	
(*) (with standard accessories)	STANDAR	STANDARD VERSION (Steel tank)	

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. Industrial design under patent.



sales@macgen.co.uk





HFW-100 T5 INDUSTRIAL RANGE Standard soundproofing Powered by FPT_IVECO

Dimensions of Other Available Versions

Weight and Dimensions		
Length	mm	2.750
[♥] Height	mm	1.900
ν Width	mm	1.100
Maximum shipping volume	m3	5,75
[•] Weight with liquids in radiator and sump	Kg	1.807
Fuel tank capacity	L	450
Autonomy	Hours	28
Sound pressure level	dB(A)@7m	69 ± 2,3
(*) (with standard accessories)	HIGH CAPACITY V	ERSION (Steel tar

HIGH CAPACITY VERSION (Steel tank)

Weight and Dimensions		
(Length	mm	2.750
(H) Height	mm	2.163
(W) Width	mm	1.100
Maximum shipping volume	m3	6,54
Weight with liquids in radiator and sump	Kg	1.937
Fuel tank capacity	L	850
Autonomy	Hours	52
Sound pressure level	dB(A)@7m	69 ± 2,3
(*) (with standard accessories)	HIGH CAPACITY VERSION (Steel tank)	





MODEL HFW-100 T5 INDUSTRIAL RANGE Standard soundproofing Powered by FPT_IVECO

Generator set features

Engine

- · Diesel engine
- · 4-stroke cycle
- · 12V electrical system
- · Radiator with blower fan
- · Water separator filter (no visible level)
- · Mechanical governor
- · Dry air filter

Optional :

- · Hot parts protection
- · Moving parts protection
 - ATA bulbs
 - · BPA bulbs
 - · Radiator water level sensor

Alternator

- · Self-excited and self-regulated
- 4 poles
- · AVR governor
- IP23 protection
- · H class insulation
- · Single drive-shaft
- · Flexible disc coupling

Electrical system

· Electric control and power panel with measurements devices and control unit (according to necessity and configuration)

- · 4-pole thermal magnetic circuit breaker
- · Adjustable earth leakage protection (time & sensitivity) standard in M5 and AS5, with thermal magnetic protection
- · Battery charger (standard on gensets with automatic control panels)
- · Heating resistor (standard on sets with automatic control panels)
- · Battery charger alternator with ground connection
- · Starter battery/ies installed (cables and bracket included)
- · Ground connection electrical installation with connection ready for ground spike (not supplied)
- Optional : Battery isolator

Soundproofed version

Steel chassis





MODEL HFW-100 T5 INDUSTRIAL RANGE Standard soundproofing Powered by FPT_IVECO

Generator set features

Soundproofed version

- · Oil sump extraction kit
- · Versatility to assemble a high capacity chassis with a metallic fuel tank
- Anti-vibration shock absorbers
- · Fuel tank
- · Fuel level gauge
- · Emergency stop button
- · Bodywork made from high quality steel plate
- · High mechanical strength
- \cdot Low level of noise emissions
- · Soundproofing provided by high-density volcanic rock wool
- · Epoxy polyester powder coating (salt spray test of more than 1000 hours)
- · Full access for maintenance (water, oil and filters, no need to remove the bonnet)
- Reinforced lifting hooks for crane hoisting
- · Watertight chassis (acts as a double barrier against liquid retention)
- · Fuel tank drain plug
- · Chassis drain plug
- · Chassis ready for future mobile kit installation
- · Steel residential silencer -35db(A) attenuation.

Optional : • 3-way valve fuel filling (available in 1/2" and 3/8" fittings)

· Fuel transfer pump