



HIMOINSA

HFW-100 T5

INDUSTRIAL 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	230/132 · 230 V (t)	
RATED AT POWER FACTOR	Cos Phi	0,8	



INDUSTRIAL 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 2012/46/EU)
- 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

Continuous Power (COP): According to Standard ISO 8528-1:2018, this is the maximum power available for continuous loads for unlimited running hours a year between the maintenance times recommended by the manufacturer under the environmental conditions established by the same.

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

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 • BRAZIL • ARGENTINA

Subsidiaries:
PORTUGAL | POLAND | GERMANY | UK | SINGAPORE | UAE | PANAMA |
DOMINICAN REPUBLIC | ARGENTINA | ANGOLA | SOUTH AFRICA



STANDARD SOUNDPROOFING



D10



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.



Ctra. Murcia - San Javier, km. 23,6 | 30730 San Javier (Murcia) SPAIN | Tel.: +34 902 19 11 28 / +34 968 19 11 28
Fax: +34 968 19 12 17 | Export Fax +34 968 19 04 20 | E-mail: info@himoinsa.com | www.himoinsa.com





Engine Specifications | 1.500 r.p.m.

Rated Output (COP)	kW	71
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	
Model	UCI274C	
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)

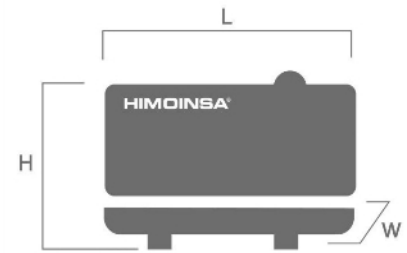
- Self-excited and self-regulated
- 4 poles
- AVR governor
- IP23 protection
- H class insulation
- Single drive-shaft
- Flexible disc coupling





WEIGHT AND DIMENSIONS

		Standard Version	High Capacity version	High Capacity version
Length (L)	mm	2.750	2.750	2.750
Height (H)	mm	1.760	1.900	2.163
Width (W)	mm	1.100	1.100	1.100
Maximum shipping volume	m ³	5,32	5,75	6,54
Weight with liquids in radiator and sump	Kg	1689	1807	1937
Fuel tank capacity	L	240	450	850
Autonomy	Hours	13	24	46
Sound pressure level	dB(A)@7m	68 ± 2,4	68 ± 2,4	68 ± 2,4
		Plastic 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 ³ /h	525
Cooling Air Flow	m ³ /s	2,2
Alternator fan air flow	m ³ /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



Soundproofed version

- Steel chassis
- Anti-vibration shock absorbers
- Fuel tank
- Fuel level gauge
- External emergency stop switch
- 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
- 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.
- Oil sump extraction kit
- Versatility to assemble a high capacity chassis with a metallic fuel tank
- IP Protection according to ISO 8528-13:2016
- 3 way valve for external fuel supply (available in 1/2" and 3/8" fittings) (Opcional).
- Fuel transfer pump (Opcional).





FEATURES OF THE CONTROL UNITS

	CEM 7	CEA 7	CEC 7	CEM7 + CEC7
Generator Readings	Voltage between phases	●	●	●
	Voltage between neutral and phase	●	●	●
	Current intensities	●	●	●
	Frequency	●	●	●
	Apparent power (Kva)	●	●	●
	Active power (Kw)	●	●	●
	Reactive power (kVAr)	●	●	●
	Power factor	●	●	●
Mains Readings	Voltage between phases		●	●
	Voltage between phases and neutral		●	●
	Current intensities		●	●
	Frequency		●	●
	Apparent power		●	
	Active power		●	
	Reactive power		●	
Engine Readings	Coolant temperature	●		●
	Oil pressure	●	●	●
	Fuel level (%)	●	●	●
	Battery voltage	●	●	●
	R.P.M.	●	●	●
	Battery charge alternator voltage	●	●	●
Engine Protections	High water temperature	●	●	●
	High water temperature by sensor	●	●	●
	Low water temperature by sensor	●	●	●
	Low oil pressure	●	●	●
	Low oil pressure by sensor	●	●	●
	Low water level	●	●	●
	Unexpected shutdown	●	●	●
	Fuel storage	●	●	●
	Fuel storage by sensor	●	●	●
	Stop failure	●	●	●
	Battery voltage failure	●	●	●
	Battery charge alternator failure	●	●	●
	Overspeed	●	●	●
	Underspeed	●	●	●
	Start failure	●	●	●
Emergency stop	●	●	●	

● Standard

⊙ Optional



	CEM 7	CEA 7	CEC 7	CEM7 + CEC7
Alternator Protections	High frequency	●	●	●
	Low frequency	●	●	●
	High voltage	●	●	●
	Low voltage	●	●	●
	Short-circuit	●	●	●
	Asymmetry between phases	●	●	●
	Incorrect phase sequence	●	●	●
	Inverse power	●	●	●
	Overload	●	●	●
	Genset signal drop	●	●	●
Counters	Total hour counter	●	●	●
	Partial hour counter	●	●	●
	Kilowatt meter	●	●	●
	Starts valid counters	●	●	●
	Starts failure counters	●	●	●
	Maintenance	●	●	●
Communications	RS232	⓪	⓪	⓪
	RS485	⓪	⓪	⓪
	Modbus IP	⓪	⓪	⓪
	Modbus	⓪	⓪	⓪
	CCLAN	⓪	⓪	⓪
	Software for PC	⓪	⓪	⓪
	Analogue modem	⓪	⓪	⓪
	GSM/GPRS modem	⓪	⓪	⓪
	Remote screen	⓪	⓪	⓪
	Tele signal	⓪ (8 + 4)	⓪ (8 + 4)	⓪ (8 + 4)
J1939	⓪	⓪	⓪	
Features	Alarm history	● (10) / (opc. +100)	● (10) / (opc. +100)	● (10) / (opc. +100)
	External start	●	●	●
	Start inhibition	●	●	●
	Mains failure start	●	●	●
	Start under normative EJP	●	●	●
	Pre-heating engine control	●	●	●
	Genset contactor activation	●	●	●
	Mains & Genset contactor activation	●	●	●
	Fuel transfer control	●	●	●
	Engine temperature control	●	●	●
	Manual override	●	●	●
	Programmable alarms	●	●	●
	Genset start function in test mode	●	●	●
	Programmable outputs	●	●	●
	Multilingual	●	●	●
Special Functions	GPS Positioning	⓪	⓪	⓪
	Synchronisation	⓪	⓪	⓪
	Mains synchronization	⓪	⓪	⓪
	Second Zero elimination	⓪	⓪	⓪
	RAM7	⓪	⓪	⓪
	Remote screen	⓪	⓪	⓪
	Programming timer	⓪	⓪	⓪

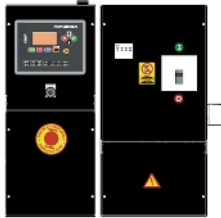
● Standard

⓪ Optional





CONTROL PANELS



M5

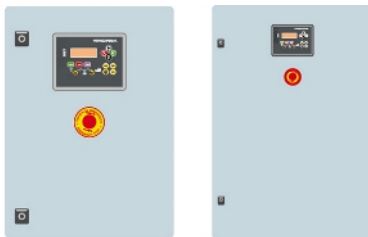
Digital manual Auto-Start control panel and thermal magnetic protection (depending on current and voltage) and differential with CEM7.

Digital control unit CEM7



AS5

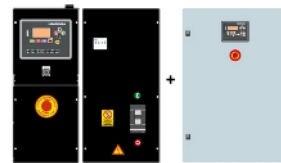
Automatic panel WITHOUT transfer switch and WITHOUT mains control with CEM7 unit. (*) AS5 as optional with CEA7 unit. Automatic panel without transfer switch and WITH mains control.



CC2

Himoinsa Switching cabinet WITH display.

Digital control unit CEC7



AS5 + CC2

Automatic panel WITH transfer switch and with mains control. The display will be on the genset and on the cabinet.

Digital control unit CEM7+CEC7



AC5

Automatic mains failure control panel. Wall-mounted cabinet WITH transfer switch and thermal magnetic protection (depending on current and voltage).

Digital control unit CEA7



Electrical system

- Electric control and power panel with measurements devices and control unit (according to necessity and configuration)
- 4-pole thermal magnetic circuit breaker
- Battery Switch
- 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)

