



HIMOINSA



MODEL
HF-160 T5
 INDUSTRIAL RANGE
 Standard soundproofing
 Powered by FPT_IVECO

- E10
- WATER-COOLED
- THREE PHASE
- 50 HZ
- STAGE 2
- DIESEL

Generating Rates



SERVICE		PRP	ESP
Power	kVA	160	175
Power	kW	128	140
Rated Speed	r.p.m.	1.500	
Standard Voltage	V	240/415	
Available Voltages	V	220/380 - 230/400	
Rated at power factor	Cos Phi	0.8	

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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)
- 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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Engine Specifications 1.500 r.p.m.

ENGINE		PRP	ESP
Rated Output	kW	137,7	152
Manufacturer		FPT_IVECO	
Model		NEF67TM3A	
Engine Type		4-stroke diesel	
Injection Type		Direct	
Aspiration Type		Turbocharged and after-cooled	
Number of cylinders and arrangement		6-L	
Bore and Stroke	mm	104 x 132	
Displacement	L	6,7	
Cooling System		Liquid (water + 50% glycol)	
Lube Oil Specifications		ACEA E3 - E5	
Compression Ratio		17,5 : 1	
Fuel Consumption ESP	l/h	39	
Fuel Consumption 100% PRP	l/h	36	
Fuel Consumption 80 % PRP	l/h	29	
Fuel Consumption 50 % PRP	l/h	18	
Lube oil consumption with full load		0,5 % of fuel consumption	
Total oil capacity including tubes, filters	L	17,2	
Total coolant capacity	L	25,5	
Governor	Type	Mechanical	
Air Filter	Type	Dry	
Inner diameter exhaust pipe	mm	70	

Generator

Generator		
Manufacturer		MECC ALTE
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)



Application Data

Exhaust System		
Maximum exhaust temperature	°C	570
Exhaust Gas Flow	kg/s	0,205
Maximum allowed back pressure	kPa	5
Exhaust Flange Size (external diameter)	mm	120
Heat dissipated by exhaust pipe	KCal/Kwh	688,9

Necessary Amount Of Air		
Intake air flow	m ³ /h	586
Cooling Air Flow	m ³ /s	3,8
Alternator fan air flow	m ³ /s	0,322

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	450
Other fuel tank capacities	L	600, 1.100



Dimensions



E10 Weight and Dimensions		
(L) Length	mm	3.300
(H) Height	mm	1.956
(W) Width	mm	1.200
Maximum shipping volume	m ³	7,75
(*) Weight with liquids in radiator and sump	kg	2.210
Fuel tank capacity	L	450
Autonomy	Hours	16
Sound pressure level	dB(A)@7m	68 ± 2,4
(*) (with standard accessories)		

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.

Local Distributor



Dimensions of Other Available Versions

<i>Weight and Dimensions</i>		
(L) Length	mm	3.300
(H) Height	mm	1.956
(W) Width	mm	1.200
Maximum shipping volume	m ³	7,75
(*) Weight with liquids in radiator and sump	kg	2.300
Fuel tank capacity	L	600
Autonomy	Hours	21
Sound pressure level	dB(A)@7m	68 ± 2,4
(*) (with standard accessories)		

HIGH CAPACITY VERSION (Steel tank)

<i>Weight and Dimensions</i>		
(L) Length	mm	3.300
(H) Height	mm	2.179
(W) Width	mm	1.200
Maximum shipping volume	m ³	8,63
(*) Weight with liquids in radiator and sump	kg	2.465
Fuel tank capacity	L	1.100,0
Autonomy	Hours	38
Sound pressure level	dB(A)@7m	68 ± 2,4
(*) (with standard accessories)		

HIGH CAPACITY VERSION (Steel tank)



Automatic Controller- CEM7

The CEM7 is an Auto-start digital controller which is equipped on Himoinsa generator sets, which is able to control the operation, monitoring and protection of a generator-set.



Controller Display:

- Voltage between each Phase & Neutral
- Voltage between Phases
- Current (amps) on each Phase
- Frequency
- Active, Apparent, & Reactive Power
- Power Factor
- Instant Power (kW) and Accumulative power
- Fuel level
- Oil pressure, coolant temperature
- Battery voltage, battery charging alternator voltage
- Engine Speed
- Hours running

Engine Alarms:

- High coolant temperature
- Low oil pressure
- Emergency stop
- Battery charging alternator
- Low coolant level
- Over Speed
- Under speed
- Low fuel level by sensor
- Battery low voltage

Generator Alarms:

- Over-load
- Unbalanced voltage
- Over-voltage
- Under-voltage
- Over-frequency
- Under-frequency
- Short-circuit
- Inverse Power
- Asymmetry among phases



Generator set features

Engine

- Diesel engine
- 4-stroke cycle
- 12V electrical system
- Mechanical governor
- Dry air filter
- Hot parts protection
- Moving parts protection

Alternator

- Self-excited and self-regulated
- 4 poles
- IP23 protection
- H class insulation
- 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
- Battery charger
- Battery charger alternator with ground connection
- Starter battery/ies installed (cables and bracket included)
- Optional :
 - Heating resistor
 - Adjustable earth leakage protection

Soundproofed version

- Steel chassis
- Anti-vibration shock absorbers
- Emergency stop button
- Bodywork made from high quality steel plate
- High mechanical strength
- Low level of noise emissions
- 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 bonnet)
- Reinforced lifting hooks for crane hoisting
- Chassis ready for future mobile kit installation
- Steel residential silencer -35db(A) attenuation.
- Versatility to assemble a high capacity chassis with a metallic fuel tank
- IP Protection according to ISO 8528-13:2016
- Optional :
 - 3-way valve fuel filling (available in 1/2" and 3/8" fittings)
 - Galvanized slide carriage and brackets for transportation with forklift