





MODEL  
**HSY-90 T5**  
HS | STATIONARY RANGE  
Standard soundproofing  
Powered by YANMAR

-  HS40
-  WATER-COOLED
-  THREE PHASE
-  50 HZ
-  DIESEL

## Generating Rates



SERVICE		PRP	ESP
Power	kVA	83	90
Power	kW	66	72
Rated Speed	r.p.m.	1.500	
Standard Voltage	V	400/230	
Available Voltages	V	230/115 - 380/220 - 415/240	
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 8528-5:2018

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**Manufacture facilities:**

SPAIN • FRANCE • USA

**Subsidiaries:**

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



## Engine Specifications 1.500 r.p.m.

ENGINE		PRP	ESP
Rated Engine Output	kW	73,3	80,7
Manufacturer		YANMAR	
Model		4F104SM3.GL	
Engine Type		4-stroke diesel	
Injection Type		Direct	
Aspiration Type		Turbocharged	
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	
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	Type	Mechanical	
Air Filter	Type	Dry	
Inner diameter exhaust pipe	mm	70,3	

## Generator

Generator		
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)

## Application Data

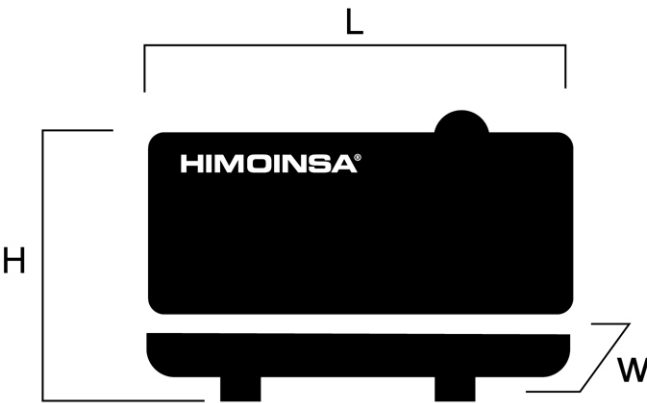
Exhaust System			
Maximum exhaust temperature	°C	516	
Maximum allowed back pressure	kPa	5	
Heat dissipated by exhaust pipe	KCal/Kwh	543	

Necessary Amount Of Air			
Intake air flow	m <sup>3</sup> /h	273	
Cooling Air Flow	m <sup>3</sup> /s	2,2	
Alternator fan air flow	m <sup>3</sup> /s	0,262	

Starting System			
Starting power	kW	3	
Starting power	CV	4,08	
Auxiliary Voltage	Vdc	12	

Fuel System			
Fuel Oil Specifications		Diesel	
Fuel Tank	L	195	
Fuel Consumption ESP	l/h	21,2	
Fuel Consumption 70 % ESP	l/h	14,64	

Dimensions



HS40 Weight and Dimensions			
(L) Length	mm	2.600	
(H) Height	mm	1.500	
(W) Width	mm	910	
Maximum shipping volume	m <sup>3</sup>	3,55	
(*) Weight with liquids in radiator and sump	kg	1.195	
Fuel tank capacity	L	195	
Autonomy (100% ESP)	Hours	9	
Sound pressure level	dB(A)@7m	69 ± 2,4	
Sound pressure level with attenuation system	dB(A)@7m	66 ± 2,4	

(\*) (with standard accessories)

STANDARD VERSION (Steel tank)