HIMOINSA
A YANMAR COMPANY

HSY-50 T5

HS | STATIONARY RANGE
Powered by YANMAR

SERVICE		PRP	ESP
POWER	kVA	42	50
POWER	kW	33	40
RATED SPEED	r.p.m.	1.500	
MAIN VOLTAGE	V	400/230	
AVAILABLE VOLTAGES	V	230/115 · 380/220 · 415/240	
RATED AT POWER FACTOR	Cos Phi	0,8	

HS | STATIONARY 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)
- EN 12100, EN 13857, EN 60204

Ambient conditions of reference according to ISO 8528-1:2018 normative: 1000 mbar, 25ºC, 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.

"Class G2" performance according to the load impact test according to ISO 8528-5:2018

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Manufacture facilities:
SPAIN • FRANCE • INDIA • CHINA • USA • BRAZIL • ARGENTINA

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

OPEN SKID

- K3
- WATER-COOLED
- THREE PHASE
- 50 HZ
- 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.

ISO 9001
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Engine Specifications | 1.500 r.p.m.

Rated Engine Output (PRP)	kW	37,7
Rated Engine Output (ESP)	kW	45,5
Manufacturer		YANMAR
Model		4TNV98THSPU
Engine Type		4-stroke diesel
Injection Type		Direct
Aspiration Type		Turbocharged
Number of cylinders and arrangement		4-L
Bore and Stroke	mm	98 x 110
Displacement	L	3,319
Cooling System		Coolant
Lube Oil Specifications		SAE 3 class 10W30 / API grade CD,CF
Compression Ratio		18,1

Lube oil consumption with full load	g/kWh	0,27
Total oil capacity	L	10,5
Total coolant capacity	L	9
Governor	Type	Mechanical
Air Filter	Type	Dry
Inner diameter exhaust pipe	mm	45

- Diesel engine
- 4-stroke cycle
- Water-cooled
- 12V electrical system
- Dry air filter
- Radiator with pusher fan
- Mechanical governor
- Hot parts protection
- Moving parts protection

Generator Specifications | STAMFORD

Manufacturer		STAMFORD
Model		S1L2.N1
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

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WEIGHT AND DIMENSIONS

		Standard Version
Length (L)	mm	1850
Height (H)	mm	1500
Width (W)	mm	780
Maximum shipping volume	m³	2,16
Weight with liquids in radiator and sump	Kg	665
Fuel tank capacity	L	120
Autonomy (70% ESP)	Hours	16
Autonomy (100% ESP)	Hours	11

APPLICATION DATA

EXHAUST SYSTEM

Maximum exhaust temperature	°C	480
Exhaust Gas Flow	m³/min	11,36
Maximum allowed back pressure	mm H2o	1000

NECESSARY AMOUNT OF AIR

Intake air flow	m³/h	194,16
Cooling Air Flow	m³/s	0,979
Alternator fan air flow	m³/s	0,176

FUEL CONSUMPTION

Fuel Consumption ESP	l/h	10,74
Fuel Consumption 70 % ESP	l/h	7,64

FUEL SYSTEM

Fuel Oil Specifications		Diesel
Fuel Tank	L	120

STARTING SYSTEM

Starting power	kW	2,3
Starting power	CV	3,13
Recommended battery	Ah	92
Auxiliary Voltage	Vdc	12

Open set version

- Steel chassis
- Emergency stop button
- Anti-vibration shock absorbers
- Chassis with integrated fuel tank
- Fuel level gauge
- Steel industrial silencer -15db(A) attenuation
- Manual oil drain pump (Opcional).
- Fuel transfer pump (Opcional).
- Steel residential silencer -35db(A) attenuation. (Opcional).

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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		•		
	Power factor		•		
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

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		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	ⓞ	ⓞ	ⓞ	ⓞ
	RS485	ⓞ	ⓞ	ⓞ	ⓞ
	Modbus IP	ⓞ	ⓞ	ⓞ	ⓞ
	Modbus	ⓞ	ⓞ	ⓞ	ⓞ
	CCLAN	ⓞ	ⓞ		ⓞ
	Software for PC	ⓞ	ⓞ	ⓞ	ⓞ
	Analogue modem	ⓞ	ⓞ	ⓞ	ⓞ
	GSM/GPRS modem	ⓞ	ⓞ	ⓞ	ⓞ
	Remote screen	ⓞ	ⓞ		ⓞ
	Tele signal	ⓞ (8 + 4)	ⓞ (8 + 4)		ⓞ (8 + 4)
	J1939	ⓞ	ⓞ		ⓞ
Features	Alarm history	● (100)	● (100)	● (100)	● (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	ⓞ	ⓞ		ⓞ
	Synchronisation	ⓞ	ⓞ		ⓞ
	Mains synchronization	ⓞ	ⓞ		ⓞ
	Second Zero elimination	ⓞ	ⓞ		ⓞ
	RAM7	ⓞ	ⓞ		ⓞ
	Remote screen	ⓞ	ⓞ		ⓞ

● Standard ⓞ Optional

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CONTROL PANELS

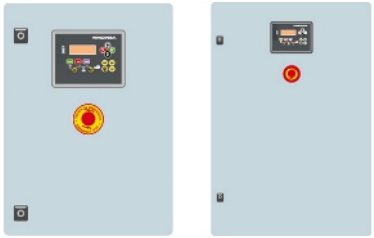
M5

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

Digital control unit CEM7

AS5

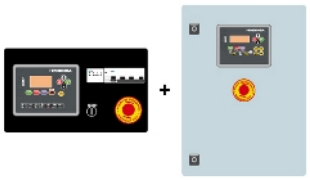
Automatic panel WITHOUT transfer switch and WITHOUT mains control with CEM7 unit. (*) AS5 as optional with CEA7 unit. Automatic panel without transfer switch and WITH mains control.



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)
- Adjustable earth leakage 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)
- Battery Switch (Opcional).
- Leakage detector (Opcional).
- Optional Battery (Optima) (Opcional).

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