HIMOINSA
A YANMAR COMPANY

MODEL
HSY-15 M6
HS | STATIONARY RANGE
Open Skid
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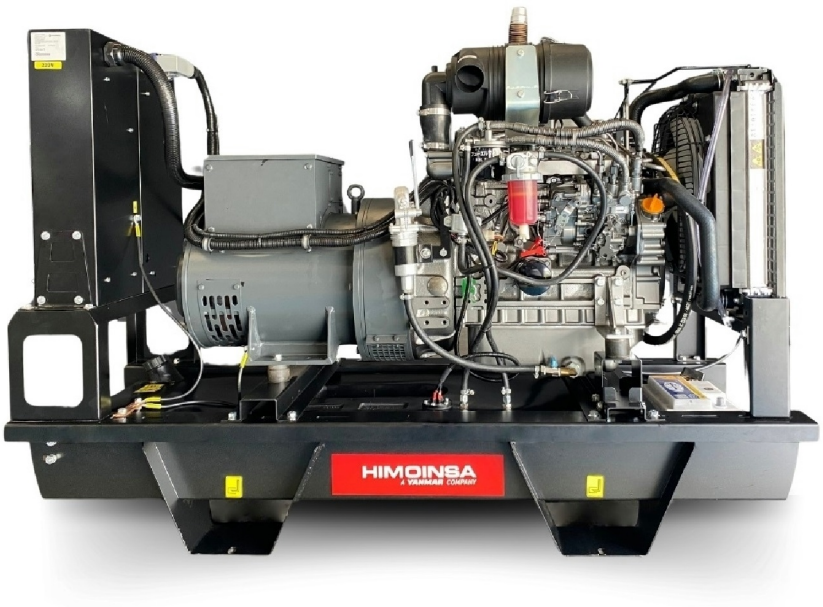

- K1
- WATER-COOLED
- SINGLE PHASE
- 60 HZ
- DIESEL

Generating Rates

SERVICE		PRP	ESP
Power	kVA	11,8	13,9
Power	kW	11,8	13,9
Rated Speed	r.p.m.	1.800	
Main voltage	V	240/120	
Rated at power factor	Cos Phi	1	

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 8528-1:2020 normative: 1000 mbar, 25ºC, 30% relative humidity.

Limited-time running power (LTP):
According to Standard ISO 8528-1:2020, this is the maximum power available for a limited operating time of 500 Hours a year between the maintenance times recommended by the manufacturer under the environmental conditions established by the same.

Emergency Standby Power (ESP):
According to ISO ISO 8528-1:2020, 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

"Class G2" performance according to the load impact test according to ISO 8528-5:2020

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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

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Engine Specifications 1.800 r.p.m.

ENGINE		PRP	ESP
Rated Engine Output	kW	14,8	17,6
Manufacturer		YANMAR	
Model		3TNV88HSPU	
Engine Type		4-stroke diesel	
Injection Type		Direct	
Aspiration Type		Natural	
Number of cylinders and arrangement		3-L	
Bore and Stroke	mm	88 x 90	
Displacement	L	1,642	
Cooling System		Water	
Lube Oil Specifications		10W40 CJ4 / CK4 ACEA E9	
Compression Ratio		19,1	
Lube oil consumption with full load	g/kWh	0,27	
Total oil capacity	L	6,7	
Total coolant capacity	L	4,8	
Governor	Type	Mechanical	
Air Filter	Type	Dry	
Inner diameter exhaust pipe	mm	36	

Generator

Generator		
Manufacturer		HIMOINSA
Poles	No.	4
Connection type (standard)		Star-series
Mounting type		S-4 7,5"
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)

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Application Data

Exhaust System		
Maximum exhaust temperature	ºC	590
Exhaust Gas Flow	m^3/min	4,87
Maximum allowed back pressure	mm H_2O	1300

Necessary Amount Of Air		
Intake air flow	m^3/h	79,8
Cooling Air Flow	m^3/s	0,753
Alternator fan air flow	m^3/s	0,135

Starting System		
Starting power	kW	1,2
Starting power	CV	1,63
Recommended battery	Ah	66
Auxiliary Voltage	Vdc	12

Fuel System		
Fuel Oil Specifications		Diesel
Fuel Tank	L	60
Fuel Consumption ESP	l/h	5,22
Fuel Consumption 70 % ESP	l/h	3,35

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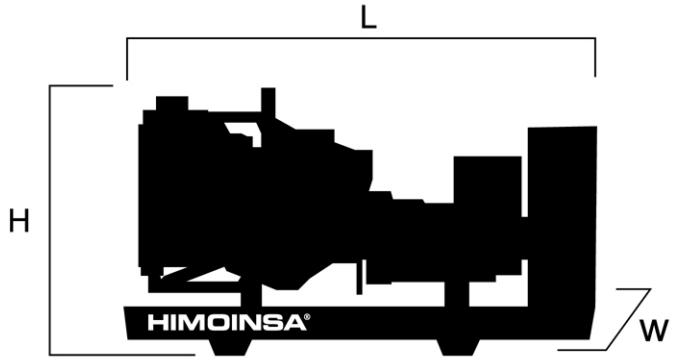
Dimensions



K1	Weight and Dimensions		
(L)	Length	mm	1.450
(W)	Width	mm	620
(*)	Weight with liquids in radiator and sump	kg	Ask
	Fuel tank capacity	L	60
	Autonomy (70% ESP)	Hours	18
	Autonomy (100% ESP)	Hours	11

(*) (with standard accessories)

STANDARD VERSION

Local Distributor

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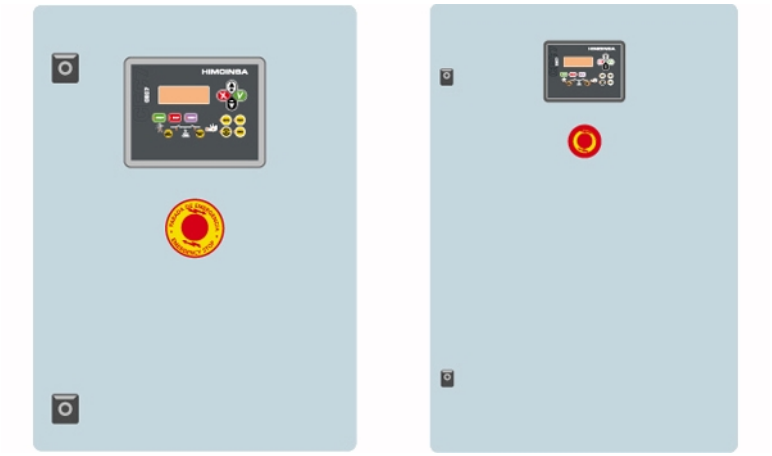
CONTROL PANEL MODEL

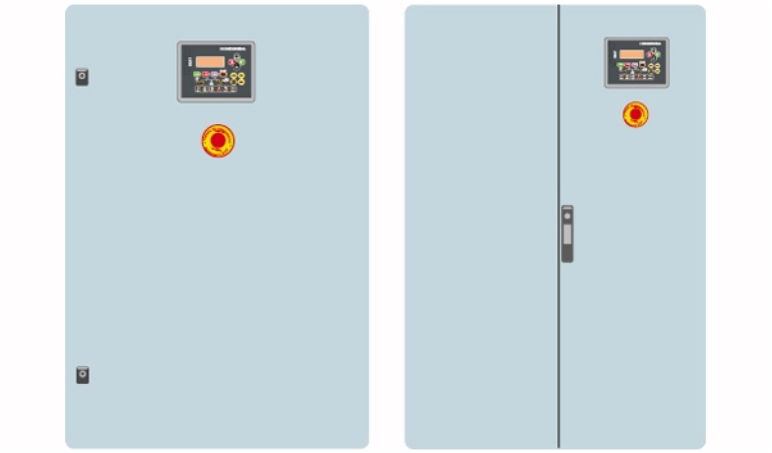
CC2

Himoinsa Switching cabinet WITH display. Digital control unit 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



M5

Control panel with CEM8 Auto-Start controller, thermal-magnetic and earth leakage relay (according to voltage and frequency). Digital control unit CEM 8

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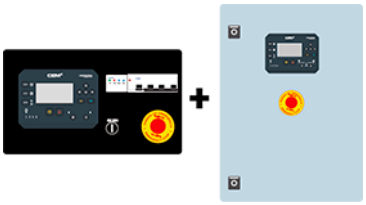
CONTROL PANEL MODEL

AS5

Automatic panel WITHOUT transfer switch and WITHOUT mains control with CEM8 unit. (*) AS5 as optional with CEA8 unit. Automatic panel without transfer switch and WITH mains control. Digital control unit CEM8 CEA8

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 CEM8+CEC8



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Controller features (I)

• : Standard
x : Not included
• : Optional

Generator Readings	CEA 7	CEC 7	CEM 8
Voltage between phases	•	•	•
Voltage between neutral and phase	•	•	•
Current intensities	•	•	•
Frequency	•	•	•
Apparent power (Kva)	•	•	•
Active power (Kw)	•	•	•
Reactive power (kVAr)	•	•	•
Power factor	•	•	•
Mains Readings	**CEA 7**	**CEC 7**	**CEM 8**
Voltage between phases	•	•	x
Voltage between phases and neutral	•	•	x
Current intensities	•	•	x
Frequency	•	•	x
Apparent power	•	x	x
Active power	•	x	x
Reactive power	•	x	x
Power factor	•	x	x
Engine Readings	**CEA 7**	**CEC 7**	**CEM 8**
Coolant temperature	•	x	•
Oil pressure	•	x	•
Fuel level (%)	•	x	•
Battery voltage	•	x	•
R.P.M.	•	x	•
Battery charge alternator voltage	•	x	•
Engine Protections	**CEA 7**	**CEC 7**	**CEM 8**
High water temperature	•	x	•
High water temperature by sensor	•	x	•
Low water temperature by sensor	•	x	•
Low oil pressure	•	x	•
Low oil pressure by sensor	•	x	•
Low water level	•	x	•
Unexpected shutdown	•	x	•

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Controller features (II)

• : Standard
x : Not included
• : Optional

Engine Protections	CEA 7	CEC 7	CEM 8
Fuel storage	•	x	•
Fuel storage by sensor	•	x	•
Stop failure	•	x	•
Battery voltage failure	•	x	•
Battery charge alternator failure	•	x	•
Overspeed	•	x	•
Underspeed	•	x	•
Start failure	•	x	•
Emergency stop	•	•	•
Alternator Protections	**CEA 7**	**CEC 7**	**CEM 8**
High frequency	•	•	•
Low frequency	•	•	•
High voltage	•	•	•
Low voltage	•	•	•
Short-circuit	•	x	•
Asymmetry between phases	•	•	•
Incorrect phase sequence	•	•	•
Inverse power	•	x	•
Overload	•	x	•
Genset signal drop	•	•	•
Counters	**CEA 7**	**CEC 7**	**CEM 8**
Total hour counter	•	•	•
Partial hour counter	•	•	•
Kilowatt meter	•	•	•
Starts valid counters	•	•	
Starts failure counters	•	•	•
Maintenance	•	•	•
Communications	**CEA 7**	**CEC 7**	**CEM 8**
RS232	•	•	x
RS485	•	•	•
Modbus IP	•	•	•
Modbus	•	•	•

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Controller features (III)

• : Standard
x : Not included
• : Optional

Communications	CEA 7	CEC 7	CEM 8
CCLAN	•	x	•
Software for PC	•	•	•
Analogue modem	•	•	•
GSM/GPRS modem	•	•	x
Remote screen	•	x	•
Tele signal	• (8 + 4)	x	•
J1939	•	x	•
Features	**CEA 7**	**CEC 7**	**CEM 8**
Alarm history	• (100)	• (100)	•
External start	•	•	•
Start inhibition	•	•	•
Mains failure start	•	•	x
Start under normative EJP	•	x	•
Pre-heating engine control	•	x	•
Genset contactor activation	•	•	•
Mains & Genset contactor activation	•	•	x
Fuel transfer control	•	x	•
Engine temperature control	•	x	•
Manual override	•	x	•
Programmable alarms	•	x	•
Genset start function in test mode	•	•	•
Programmable outputs	•	x	•
Multilingual	•	•	•
Special Functions	**CEA 7**	**CEC 7**	**CEM 8**
GPS Positioning	•	x	x
Synchronisation	x	x	x
Mains synchronization	x	x	x
Second Zero elimination	x	x	x
RAM7	•	x	•
Remote screen	•	x	•

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Generator set features

Engine

· 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

Alternator

· Self-excited and self-regulated
· IP23 protection
· H class insulation

Electrical system

· Electric control and power panel with measurements devices and control unit (according to necessity and configuration)
· Adjustable earth leakage protection
· Leakage detector
· 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 Switch
· Optional Battery (Optima)

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

Optional :
· Manual oil drain pump
· Fuel transfer pump
· Steel residential silencer -35db(A) attenuation.

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