HIMOINSA®
THE ENERGY

MODEL
HYW-35 T5
INDUSTRIAL RANGE
Soundproof
Powered by YANMAR

- B10
- WATER-COOLED
- THREE PHASE
- 50 HZ
- STAGE 2
- DIESEL

Generating Rates

SERVICE		PRP	STANDBY
Power	kVA	34	37
Power	kW	27	30
Rated Speed	r.p.m.	1.500	
Standard Voltage	V	400	
Available Voltages	V	230 - 230/132 - 400/230 V	
Rated at power factor	Cos Phi	0,8	

HIMOINSA Company with quality certification ISO 9001
HIMOINSA gensets are compliant with EC mark which includes the following directives:

- 2006/42/CE Machinery safety.
- 2006/95/EC Low voltage.
- 2004/108/CE Electromagnetic compatibility.
- 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 8528-1:2005 normative: 1000 mbar, 25ºC, 30% relative humidity.

Prime Power (PRP):
According to ISO 8528-1:2005, 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 8528-1:2005, 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

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Engine Specifications 1.500 r.p.m.

ENGINE		PRP	STANDBY
Rated Output	kW	30,7	34,1
Manufacturer		YANMAR	
Model		4TNV98 GGEH	
Engine Type		Diesel 4 strokes-cycle	
Injection Type		Direct	
Aspiration Type		Natural	
Ciylinders 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		18,5	
Fuel Consumption StandBy	l/h	8,53	
Fuel Consumption 100% PRP	l/h	7,60	
Fuel Consumption 75 % PRP	l/h	5,70	
Fuel Consumption 50 % PRP	l/h	4,05	
Lube Oil Consumption 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	

Generator

Generator		
Poles	Num	4
Winding Conections (standard)		Star-serie
Frame Mounting		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)
Bearing		Single bearing
Coupling		Flexible disc
Coating type		Standar (Vacuum impregnation)

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Application Data

Exhaust System		
Maximum exhaust temperature	ºC	550
Exhaust Gas Flow	m3/min	8,52
Maximum allowed back pressure	mm H2o	1300
Exhaust Flange Size (external diameter)	mm	65

Air Inlet System		
Intake Air Flow	m3/h	134,42
Cooling Air Flow	m3/s	0,979
Alternator fan air flow	m3/s	0,09

Starting System		
Starting Motor	kW	2,3
Starting Motor	CV	3,13
Recommended Battery Capacity	Ah	92
Auxiliary Voltage	Vcc	12

Fuel System		
Fuel Oil Specifications		Diesel
Fuel Tank	L	100
Other Fuel tank capacity	L	190, 330

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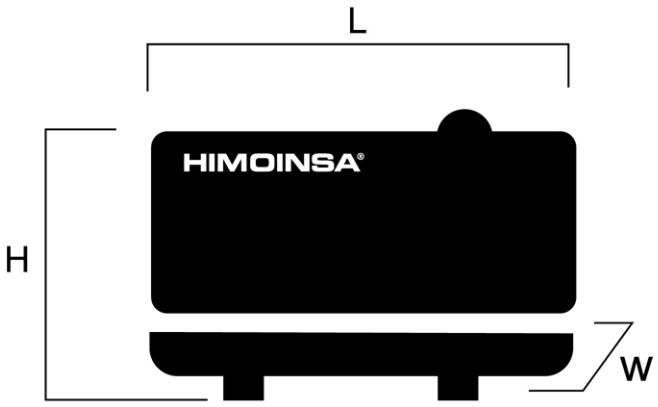
Dimensions



B10	Weight and Dimensions		
(L)	Length	mm	2.100
(H)	Height	mm	1.349
(W)	Width	mm	975
	Shipping Volume seaworthy (standard suplier)	m3	2,76
(*)	Wet weight	Kg	909
	Fuel tank capacity	L	100,0
	Autonomy	Hours	18
	Sound Level	Db(A)@7m	59,75

(*) (with standard accesories)

STANDARD VERSION (Plastic tank)

Himoinsa reserves the right to modify any characteristic without prior notice.
Weights and dimensions based on products standar. Illustrations may include optional equipment.
Technical data described here correspond with the available information at the moment of printing.
Industrial design under patent.

Local Distributor

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Another measures/dimensions of available versions

Weight and Dimensions		
(L) Length	mm	2.100
(H) Height	mm	1.409
(W) Width	mm	975
Shipping Volume seaworthy (standard suplier)	m3	2,88
(*) Wet weight	Kg	996
Fuel tank capacity	L	190,0
Autonomy	Hours	33
Sound Level	Db(A)@7m	59,75

(*) (with standard accesories)

HIGH CAPACITY VERSION (Steel tank)

Weight and Dimensions		
(L) Length	mm	2.100
(H) Height	mm	1.562
(W) Width	mm	975
Shipping Volume seaworthy (standard suplier)	m3	3,2
(*) Wet weight	Kg	1.047
Fuel tank capacity	L	330,0
Autonomy	Hours	58
Sound Level	Db(A)@7m	59,75

(*) (with standard accesories)

HIGH CAPACITY VERSION (Steel tank)

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CONTROL PANEL MODEL

M6

Control panel of free voltage contactand tetra polar thermal magnetic protection or bipolar (depending on voltage) and differential relay. M6

M5

Digital manual auto-start control panel and thermal magnetic protection (according to voltage and phase) and differential relay. CEM7

AS5

Automatic control panel WITHOUT ATS (Automatic Transfer Switch) and WITHOUT mains control with CEM7.
(*) As optional AS5 with CEA7. Automatic control panel without ATS (automatic transfer switch) and with mains control.

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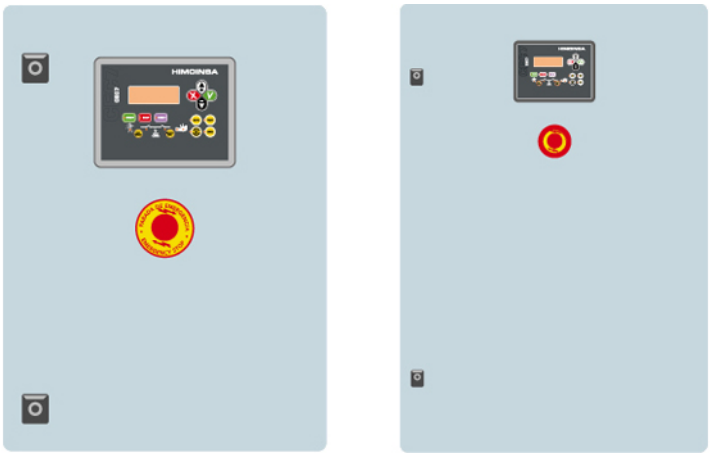
CONTROL PANEL MODEL

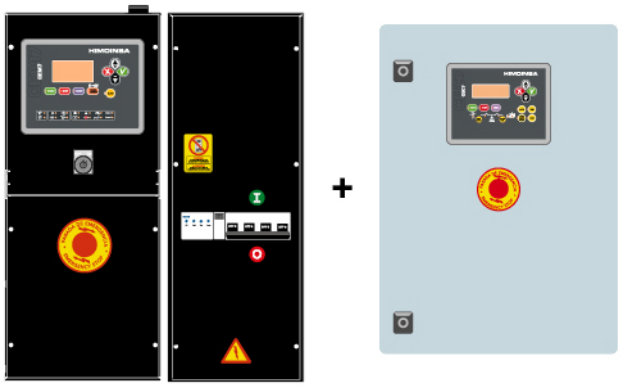
CC2

Himoinsa External ATS WITH visualization display. CEC7



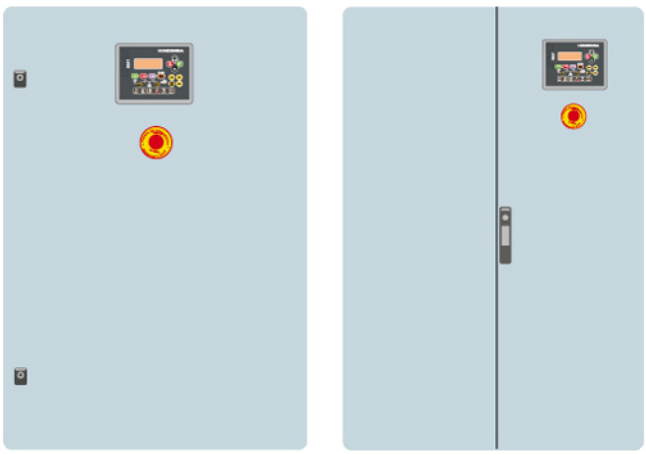
AS5 + CC2

Automatic with mains control and ATS with visualization. The visualization will be in the genset and in the ATS box. CEM7+CEC7



AC5

Automatic Mains Failure control panel. Wall mounted Automatic control panel including transfer switch with thermal magnetic protection (according to voltage and phase). CEA7



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Controllers Features

	CEM 7	CEC 7	CEA 7	CEM7 + CEC7
GENERATOR READINGS				
Voltage among phases	.	•	•	•
Voltage among phases and neutral	.	•	•	•
Amperage	.	•	•	•
Frequency	.	•	•	•
Apparent power (kVA)	.	•	•	•
Active power (kW)	.	•	•	•
Reactive power (kVAr)	.	•	•	•
Power factor	.	•	•	•
MAINS READINGS				
Voltage among phases	x	•	•	•
Voltage among phase and neutral	x	•	•	•
Amperage	x	•	•	•
Frequency	x	•	•	•
Aparent power	x	x	•	•
Active power	x	x	•	•
Reactive power	x	x	•	•
Power factor	x	x	•	•
ENGINE READINGS				
Coolant temperature	.	x	•	•
Oil pressure	.	x	•	•
Fuel level (%)	.	x	•	•
Battery voltage	.	x	•	•
R.P.M.	.	x	•	•
Battery charge alternator voltage	.	x	•	•
ENGINE PROTECTIONS				
High water temperature	.	x	•	•
High coolant temperature by sensor	.	x	•	•
Low engine temperature by sensor	.	x	•	•
Low oil pressure	.	x	•	•
Low oil pressure by sensor	.	x	•	•
Low coolent level	.	x	•	•
Unexpected shutdown	.	x	•	•
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				
High frequency	.	•	•	•
Low frequency	.	•	•	•
High voltage	.	•	•	•
Low voltage	.	•	•	•
Short-circuit	.	x	•	•
Asymmetry among phases	.	•	•	•
Incorrect phase sequence	.	•	•	•
Inverse power	.	x	•	•
Overload	.	x	•	•
Genset signal droop	.	•	•	•

• Standard
x Not included
• Optional

NOTE: All protections are programmable to make “warning” or “stop with cooling time” or “without”

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Controllers Features

	CEM 7	CEC 7	CEA 7	CEM7 + CEC7
COUNTERS				
Total hour counter	•	•	•	•
Partial hour counter	•	•	•	•
Kilowatimeter	•	•	•	•
Starts valid counters	•	•	•	•
Starts failure counters	•	•	•	•
Maintenance	•	•	•	•
COMUNICATIONS				
RS232	•	•	•	•
RS485	•	•	•	•
Modbus IP	•	•	•	•
Modbus	•	•	•	•
CCLAN	•	x	•	•
Software for PC	•	•	•	•
Analogic modem	•	•	•	•
GSM/GPRS modem	•	•	•	•
Remote screen	•	x	•	•
Telesignal	•(8+4)		•(8+4)	•(8+4)
J1939	•	x	•	•
FEATURES				
Alarms history	(10) / (•+100)	-10	(10) / (•+100)	(10) / (•+100)
External start	•	•	•	•
Start inhibition	•	•	•	•
Mains failure start	•(CEC7)	•	•	•
Start under normative EJP	•	x	•	•
Genset contactor activation	•	x	x	•
Main & Genset contactor activation	x	•	•	•
Fuel transfer control	•	x	•	•
Engine temperature control	•	x	•	•
Manual override	•	x	•	•
Programmable alarms	•	x	•	•
Genset start function in test mode	•	x	•	•
Programmable outputs	•	x	•	•
Multilingual	•	•	•	•
SPECIAL FUNCTIONS				
Positioning GPS	•		•	•
Synchronization with mains	•		•	•
Mains Synchronism	•		•	•
Second Cero suppression	•		•	•
RAM 7	•		•	•
Remote screen	•		•	•
Timer	•		•	•

- • Standard
- x Not included
- • Optional

CEC7: available when the controller CEC7 is incorparted to the installation
MPS 5.0: available application when the module MPS 5. has been incorporated to the panel.
Note: AS5 + CC2 configuration, will have all CEM7 funcionality plus CEC7 mains readings.

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Generating Sets Standard and Optional Features

Engine

· Diesel engine
· 4 strokes-cycle
· Water-cooled
· 12V Electrical system
· Radiator with blowing fan
· Water separator decanting filter (visible level)
· Mechanical governor
· Dry air cleaner
· Hot components guards
· Mobile components guards

Alternator

· Self-excited and Self-regulated
· IP23 protection degree
· Insulation H class

Electrical system

· Control and power electric panel, with measurements devices and controller (according to necessity and configuration)
· 4 poles circuit breaker
· Earth leakage protection adjustable (time & sensibility) standard in M5 and AS5 configuration with MCCB
· Battery charger (standard on automatic control panels)
· Pre-heating resistance (standard on automatic control panels) / water jacket heater
· Battery charge alternator with ground connection
· Starting battery/ies installed and connected to the engine (supports included)
· Ground connection electrical installation with connection ready for ground pike (not supplied)

Optional : · Battery disconnector

Soundproofed version

· Oil sump extraction kit
· Versatility to assemble high capacity metallic fuel tank chassis
· Steel made chassis
· Antivibration shock absorber
· Chassis with integrated fuel tank
· Fuel level sensor
· Emergency stop button
· Sound attenuated canopy made of high quality steel metal.
· High mechanical strenght
· Low noise level
· Attenuation through high density roock wool material
· Powder coating
· Easy acces for service mainteance
· Reinforced lifting eye to lift by crane
· Bunded chassis (works as liquids retention tray)
· Drain fuel tank cap
· Drain chassis cap
· Chasis ready for future mobile kit installation
· Steel made residential silencer -35db(A) attenuation.

Optional : · Fuel transfer pump

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