



HIMOINSA®
THE ENERGY

Model: **HRYW-45 T5**

HR RANGE

Soundproofed rental

Powered by YANMAR



- B10R
- WATER-COOLED
- THREE PHASE
- 50 HZ
- STAGE 3A
- DIESEL

Generating Rates



SERVICE		PRP	STANDBY
Power	kVA	41	45
Power	kW	33	36
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)
- 97/68/EC Emissions of gaseous and particulate pollutants. (amended by 2002/88/EC & 2004/26/EC)
- EN 12100, EN 13857, EN 60204

Ambient conditions of reference according to ISO 8528-1:2005 normative: 1000 mbar, 25°C, 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

HIMOINSA HEADQUARTERS:

Fábrica: Ctra. Murcia - San Javier, Km. 23,6 | 30730 SAN JAVIER (Murcia) Spain
Tel. +34 968 19 11 28 Fax +34 968 19 12 17 Fax +34 968 19 04 20 info@himoinsa.com www.himoinsa.com

Manufacture facilities:

SPAIN • FRANCE • INDIA • CHINA • USA • BRASIL

Subsidiaries:

ITALY | PORTUGAL | POLAND | GERMANY | SINGAPORE | UAE | MEXICO | PANAMÁ | ARGENTINA | UK



Ctra. Murcia - San Javier, km. 23,6 | 30730 San Javier (Murcia) SPAIN | Tel.: +34 902 19 11 28 / +34 968 19 11 28
Fax: +34 968 19 12 17 | Export Fax +34 968 19 04 20 | E-mail: info@himoinsa.com | www.himoinsa.com





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Engine Specifications 1.500 r.p.m.

ENGINE		PRP	STANDBY
Rated Output	kW	37,7	41,8
Manufacturer		YANMAR	
Model		4TNV98T ZGGEH	
Engine Type		Diesel 4 strokes-cycle	
Injection Type		Direct	
Aspiration Type		Turbocharged	
Ciyinders Arrangement		4 - L	
Bore and Stroke	mm	98 x 110	
Displacement	L	3,319	
Cooling System		coolant	
Lube Oil Specifications		API CF,CF-4,CI-4	
Compression Ratio		18.1	
Fuel Consumption StandBy	l/h	10,11	
Fuel Consumption 100% PRP	l/h	9,16	
Fuel Consumption 75 % PRP	l/h	6,94	
Fuel Consumption 50 % PRP	l/h	4,89	
Lube Oil Consumption Full Load	g/kwh	0,27	
Total Oil Capacity	L	11,2	
Total Coolant Capacity	L	9	
Governor	Type	Electrical	
Air Filter	Type	Dry	
Inner diameter exhaust pipe	mm	45	



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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	°C	480
Exhaust Gas Flow	m3/min	10,45
Maximum allowed back pressure	mm H2o	1000
Exhaust Flange Size (external diameter)	mm	65

Air Inlet System		
Intake Air Flow	m3/h	194,16
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	100, 190, 330



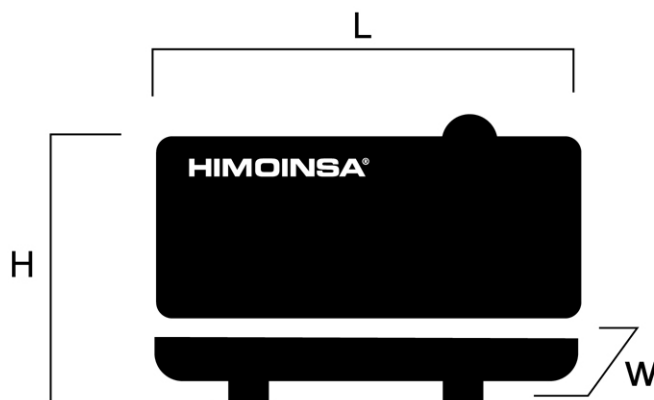
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Dimensions



B10R Weight and Dimensions			
(L) Length		mm	2.150
(H) Height		mm	1.329
(W) Width		mm	1.025
Shipping Volume seaworthy (standard supplier)		m3	2,93
(*) Wet weight		Kg	952
Fuel tank capacity		L	100,0
Autonomy		Hours	14
Sound Level		Db(A)@7m	62
(*) (with standard accessories)		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	2.150
(H) Height	mm	1.329
(W) Width	mm	1.025
Shipping Volume seaworthy (standard supplier)	m3	2,93
(*) Wet weight	Kg	992
Fuel tank capacity	L	100,0
Autonomy	Hours	14
Sound Level	Db(A)@7m	62

(*) (with standard accessories) OPTIONAL VERSION (Steel tank)

Weight and Dimensions		
(L) Length	mm	2.150
(H) Height	mm	1.552
(W) Width	mm	1.025
Shipping Volume seaworthy (standard supplier)	m3	3,42
(*) Wet weight	Kg	1.042
Fuel tank capacity	L	190,0
Autonomy	Hours	27
Sound Level	Db(A)@7m	62

(*) (with standard accessories) HIGH CAPACITY VERSION (Steel tank)

Weight and Dimensions		
(L) Length	mm	2.150
(H) Height	mm	1.552
(W) Width	mm	1.025
Shipping Volume seaworthy (standard supplier)	m3	3,42
(*) Wet weight	Kg	1.097
Fuel tank capacity	L	330,0
Autonomy	Hours	48
Sound Level	Db(A)@7m	62

(*) (with standard accessories) HIGH CAPACITY VERSION (Steel tank)



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	.	.	.
Apparent 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 coolant 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"



Controllers Features

	CEM 7	CEC 7	CEA 7	CEM7 + CEC7
COUNTERS				
Total hour counter	•	•	•	•
Partial hour counter	•	•	•	•
Kilowattimeter	•	•	•	•
Starts valid counters	•	•	•	•
Starts failure counters	•	•	•	•
Maintenance	•	•	•	•
COMMUNICATIONS				
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 Zero suppression	•		•	•
RAM 7	•		•	•
Remote screen	•		•	•
Timer	•		•	•

- Standard
- x Not included
- Optional

CEC7: available when the controller CEC7 is incorporated 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 functionality 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)
- Electronic governor
- Dry air cleaner
- Hot components and radiator guards
- Mobile components guards

Alternator

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

Electrical system

- M5 control panel with digital CEM7 controller and switched emergency stop
- Power panel with bus bars from breaker
- Safety relay in output terminal (thermomagnetical trip and alarm in controller)
- Earth leakage protection adjustable (time & sensibility) standard in M5 and AS5 configuration with MCCB
- MCCB 4P
- 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 disconnecter

Soundproofed version

- External filling of the fuel tank with safety key
- EMERGENCY STOP BUTTON (double protection for emergency stop Interior in panel + Exterior in canopy)
- Mechanized for power cable output
- Door with window to visualize control panel, alarms and measurements
- Handhole to fill the radiator
- Pre-installation or niche to house the quick connection hydraulic fittings for fuel transfer
- Pressure locks
- Anti-leakage chassis, predisposed to retain liquids (retention tray)
- Handhole for fuel tank cleaning and drainage
- Handhole for chassis cleaning
- Oversized chassis for canopy protection
- Pulling skid and pockets for transportation with forklift
- Tilting cap in the exhaust
- Steel made chassis
- Oil sump extraction kit
- Versatility to assemble high capacity metallic fuel tank chassis
- Antivibration shock absorber
- Chassis with integrated fuel tank
- Fuel level sensor
- Sound attenuated canopy made of high quality steel metal.
- High mechanical strenght





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Generating Sets Standard and Optional Features

Soundproofed version

- Low noise level
 - Attenuation through high density rock wool material
 - Powder coating
 - Easy acces for service mainteance
 - Reinforced lifting eye to lift by crane
 - Steel made residential silencer -35db(A) attenuation.
- Optional :
- 3 way valve fuel filling (available in 1/2" and 3/8" fittings)
 - Fuel transfer pump





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PDF Summary

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Page 1. Genset data

Page 2. Engine Specifications

Page 3. Generator Specifications

Page 4. Installation Data

Page 5. Dimensions

Page 6. Another measures/dimensions of available versions

Page 7. Controller features (I)

Page 8. Controller features (II)

Page 9. Generator Features & Options

Page 10. Generator Features & Options

Page 11. PDF Summary (ID454E373038313134)

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Ctra. Murcia - San Javier, km. 23,6 | 30730 San Javier (Murcia) SPAIN | Tel.: +34 902 19 11 28 / +34 968 19 11 28
Fax: +34 968 19 12 17 | Export Fax +34 968 19 04 20 | E-mail: info@himoinsa.com | www.himoinsa.com

