



**HIMOINSA**<sup>®</sup>  
THE ENERGY

Model: **HRYW-35 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	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)
- 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

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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 IGEHR	
Engine Type		Diesel 4 strokes-cycle	
Injection Type		Direct	
Aspiration Type		Natural	
Ciyinders 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	



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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	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	100, 190, 330



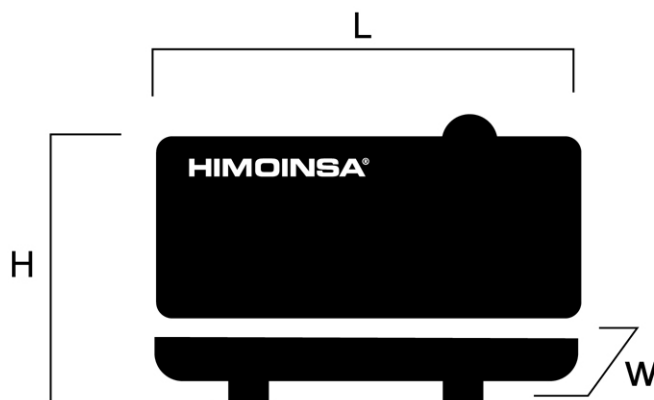
Model: **HRYW-35 T5**

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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	917
Fuel tank capacity		L	100,0
Autonomy		Hours	18
Sound Level		Db(A)@7m	59,75
(*) (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	957
Fuel tank capacity	L	100,0
Autonomy	Hours	18
Sound Level	Db(A)@7m	59,75
(*) (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	1.007
Fuel tank capacity	L	190,0
Autonomy	Hours	33
Sound Level	Db(A)@7m	59,75
(*) (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	1.062
Fuel tank capacity	L	330,0
Autonomy	Hours	58
Sound Level	Db(A)@7m	59,75
(*) (with standard accessories)		HIGH CAPACITY VERSION (Steel tank)



### Controllers Features

	CEM 7	CEC 7	CEA 7	CEM7 + CEC7
<b>GENERATOR READINGS</b>				
• Voltage among phases	•	•	•	•
• Voltage among phases and neutral	•	•	•	•
• Amperage	•	•	•	•
• Frequency	•	•	•	•
• Apparent power (kVA)	•	•	•	•
• Active power (kW)	•	•	•	•
• Reactive power (kVAr)	•	•	•	•
• Power factor	•	•	•	•
<b>MAINS READINGS</b>				
• 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	•	•
<b>ENGINE READINGS</b>				
• Coolant temperature	•	X	•	•
• Oil pressure	•	X	•	•
• Fuel level (%)	•	X	•	•
• Battery voltage	•	X	•	•
• R.P.M.	•	X	•	•
• Battery charge alternator voltage	•	X	•	•
<b>ENGINE PROTECTIONS</b>				
• 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	•	•	•	•
<b>ALTERNATOR PROTECTIONS</b>				
• 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
<b>COUNTERS</b>				
Total hour counter	•	•	•	•
Partial hour counter	•	•	•	•
Kilowattimeter	•	•	•	•
Starts valid counters	•	•	•	•
Starts failure counters	•	•	•	•
Maintenance	•	•	•	•
<b>COMMUNICATIONS</b>				
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	•	•
<b>FEATURES</b>				
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	•	•	•	•
<b>SPECIAL FUNCTIONS</b>				
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)
- Mechanical 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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