



MODEL
HYW-20 T5
INDUSTRIAL RANGE
Soundproof
Powered by YANMAR



- B10
- WATER-COOLED
- THREE PHASE
- 50 HZ
- STAGE 3A
- DIESEL

Generating Rates



| SERVICE | | PRP | STANDBY |
|-----------------------|---------|---------------|---------|
| Power | kVA | 20 | 22 |
| Power | kW | 16 | 17,6 |
| Rated Speed | r.p.m. | 1.500 | |
| Standard Voltage | V | 400/230 | |
| Available Voltages | V | 230 - 230/132 | |
| 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





Engine Specifications 1.500 r.p.m.

| ENGINE | | PRP | STANDBY |
|--------------------------------|-------|-------------------------------------|---------|
| Rated Output | kW | 19,1 | 21 |
| Manufacturer | | YANMAR | |
| Model | | 4TNV84T BGGEH | |
| Engine Type | | Diesel 4 strokes-cycle | |
| Injection Type | | Direct | |
| Aspiration Type | | Turbocharged | |
| Cylinders Arrangement | | 4 - L | |
| Bore and Stroke | mm | 84 x 90 | |
| Displacement | L | 1,995 | |
| Cooling System | | coolant | |
| Lube Oil Specifications | | SAE 3 class 10W30 / API grade CD,CF | |
| Compression Ratio | | 18,9 | |
| Fuel Consumption StandBy | l/h | 5,47 | |
| Fuel Consumption 100% PRP | l/h | 4,95 | |
| Fuel Consumption 75 % PRP | l/h | 3,75 | |
| Fuel Consumption 50 % PRP | l/h | 2,72 | |
| Lube Oil Consumption Full Load | g/kwh | 0,27 | |
| Total Oil Capacity | L | 7,4 | |
| Total Coolant Capacity | L | 5,8 | |
| Inner diameter exhaust pipe | mm | 34,7 | |

02

Generator

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



Application Data

| Exhaust System | | |
|---|--------|------|
| Maximum exhaust temperature | °C | 450 |
| Exhaust Gas Flow | m3/min | 5,24 |
| Maximum allowed back pressure | mm H2o | 1000 |
| Exhaust Flange Size (external diameter) | mm | 65 |

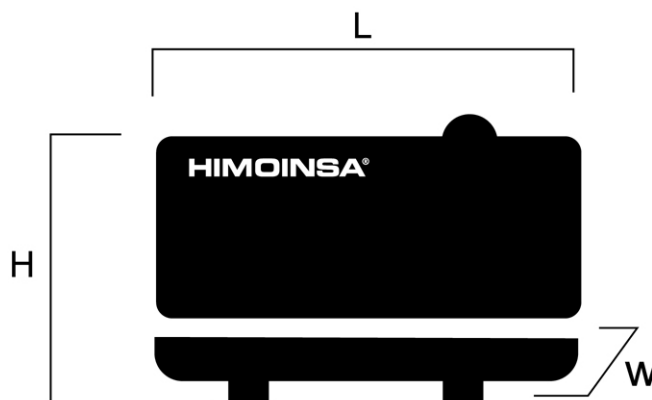
| Air Inlet System | | |
|-------------------------|------|--------|
| Intake Air Flow | m3/h | 116,71 |
| Cooling Air Flow | m3/s | 0,8 |
| Alternator fan air flow | m3/s | 0,09 |

| Starting System | | |
|------------------------------|-----|-----|
| Starting Motor | kW | 1,4 |
| Starting Motor | CV | 1,9 |
| 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 |



Dimensions



| B10 Weight and Dimensions | | |
|---|----------------|----------|
| (L) Length | mm | 2.100 |
| (H) Height | mm | 1.350 |
| (W) Width | mm | 975 |
| Maximum shipping volume (standard supplier) | m ³ | 2,76 |
| (*) Wet weight | Kg | 800 |
| Fuel tank capacity | L | 100 |
| Autonomy | Hours | 27 |
| Sound pressure level | dB(A)@7m | 60 ± 2,3 |

(*) (with standard accessories)

STANDARD VERSION (Steel tank)

Himoinsa has the right to modify any characteristic without prior notice.
Weights and dimensions based on standard products. 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



Dimensions of other available versions

| <i>Weight and Dimensions</i> | | |
|---|----------------|----------|
| (L) Length | mm | 2.100 |
| (H) Height | mm | 1.410 |
| (W) Width | mm | 975 |
| Maximum shipping volume (standard supplier) | m ³ | 2,89 |
| (*) Wet weight | Kg | 887 |
| Fuel tank capacity | L | 190 |
| Autonomy | Hours | 51 |
| Sound pressure level | dB(A)@7m | 60 ± 2,3 |
| (*) (with standard accessories) | | |

HIGH CAPACITY VERSION (Steel tank)

| <i>Weight and Dimensions</i> | | |
|---|----------------|----------|
| (L) Length | mm | 2.100 |
| (H) Height | mm | 1.565 |
| (W) Width | mm | 975 |
| Maximum shipping volume (standard supplier) | m ³ | 3,2 |
| (*) Wet weight | Kg | 938 |
| Fuel tank capacity | L | 330 |
| Autonomy | Hours | 88 |
| Sound pressure level | dB(A)@7m | 60 ± 2,3 |
| (*) (with standard accessories) | | |

HIGH CAPACITY VERSION (Steel tank)



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 parts protection
- Moving parts protection

Alternator

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

Electrical system

- Electric control panel with measurements devices and control display (according to necessity and configuration)
- 4 poles circuit breaker
- Battery charger (standard on automatic control panels)
- Pre-heating resistance (standard on automatic control panels) / water jacket heater
- Battery charger 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 isolator

Soundproofed version

- 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 sender
- Emergency stop button
- Sound attenuated canopy made of high quality steel metal.
- High mechanical strenght
- Low noise level
- Attenuation through high density rock wool material
- Epoxy 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