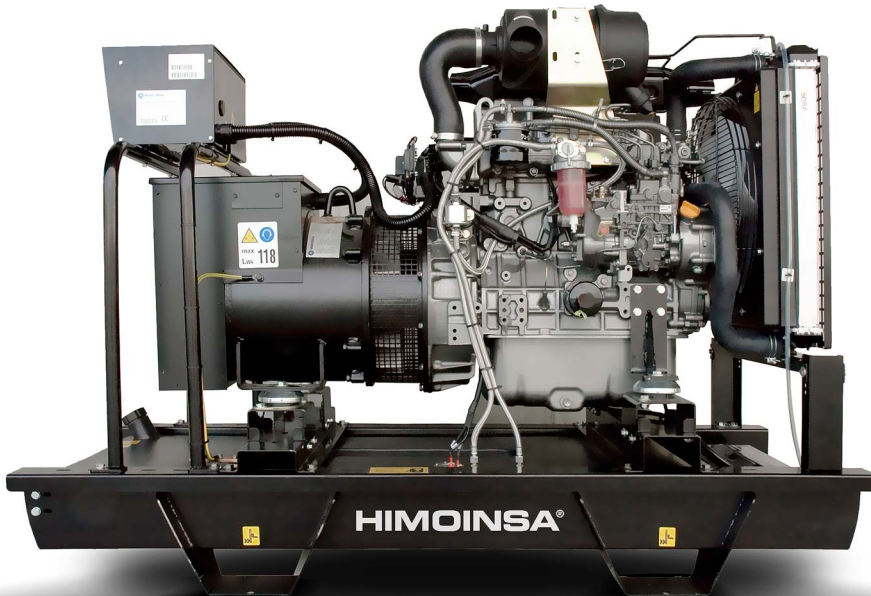




HIMOINSA



MODEL
HYW-35 T5
 INDUSTRIAL RANGE
 Open Skid
 Powered by YANMAR

- K3
- 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 | 240/415 | |
| Available Voltages | V | 220/380-230/400 | |
| Rated at power factor | Cos Phi | 0,8 | |

01

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 8528-1:2005 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

G2 class load acceptance in accordance with ISO 8528-5:2013

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 • ARGENTINA

Subsidiaries:

ITALY | PORTUGAL | POLAND | GERMANY | SINGAPORE | UAE | MEXICO | PANAMÁ | ANGOLA | 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





Engine Specifications 1.500 r.p.m.

| ENGINE | | PRP | STANDBY |
|-------------------------------------|-------|-------------------------------------|---------|
| Rated Output | kW | 30,7 | 34,1 |
| Manufacturer | | YANMAR | |
| Model | | 4TNV98GGEH | |
| Engine Type | | 4-stroke diesel | |
| Injection Type | | Direct | |
| Aspiration Type | | Natural | |
| Number of cylinders and 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 with 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 | | |
|--------------------------------|-------|--------------------------------|
| Manufacturer | | MECCALTE |
| Poles | No. | 4 |
| Connection type (standard) | | Star-series |
| Mounting type | | 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) |
| Bracket type | | Single bearing |
| Coupling system | | Flexible disc |
| Coating type | | Standard (Vacuum impregnation) |



Application Data

| Exhaust System | | |
|-------------------------------|---------------------|------|
| Maximum exhaust temperature | °C | 550 |
| Exhaust Gas Flow | m ³ /min | 8,52 |
| Maximum allowed back pressure | mm H ₂ O | 1300 |

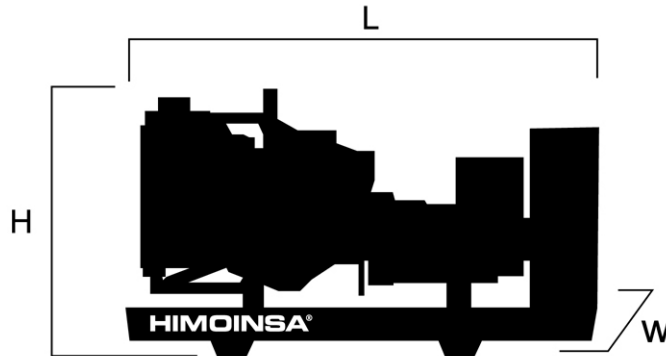
| Necessary Amount Of Air | | |
|-------------------------|-------------------|--------|
| Intake air flow | m ³ /h | 134,42 |
| Cooling Air Flow | m ³ /s | 0,979 |
| Alternator fan air flow | m ³ /s | 0,09 |

| Starting System | | |
|---------------------|-----|------|
| Starting power | kW | 2,3 |
| Starting power | CV | 3,13 |
| Recommended battery | Ah | 92 |
| Auxiliary Voltage | Vdc | 12 |

| Fuel System | | |
|-------------------------|---|--------|
| Fuel Oil Specifications | | Diesel |
| Fuel Tank | L | 120 |



Dimensions



Weight and Dimensions

| | | |
|--|----------------|-------|
| (L) Length | mm | 1.850 |
| (H) Height | mm | 1.500 |
| (W) Width | mm | 780 |
| Maximum shipping volume | m ³ | 2,16 |
| (*) Weight with liquids in radiator and sump | kg | 579 |
| Fuel tank capacity | L | 120 |
| Autonomy | Hours | 21 |

(*) (with standard accessories)

STANDARD VERSION

Australia has the right to modify any feature without prior notice.
Weights and dimensions based on standard products. Illustrations may include optional equipment.
Technical data described in this catalogue correspond to the available information at the moment of printing.
Industrial design under patent.

Local Distributor



Control Panel M7

Control & Power Panel

1. CM Control Panel.
2. CP Power Panel.
3. On/Off Switch..
4. Emergency Stop.
5. Main Line Circuit Breaker for overload protection.
6. Main bus /hardwire connection panel with safety protection.



M7 Key-start control panel

The M7 device is a monitoring and control electronic system for electrical engine generator sets .

The M7 device is a compact module place in the front panel that develops the following features :

• User's interface. The M7 controller provides information about the status of the generator set and, at the same time, allows the user to interact with it; using M7 keyboard, user is able to configure the functions of the unit.

M7 controller allows to check the last 100 failures registered and a detailed information of the generator set of the last 10 failures.

• Generator set control. M7 controller keep the generator set in working order, including engine control and electrical signal monitoring the generator set, including engine and electrical signal. Every signal, sensor and actuator is connected to the rear part of the M device.

Generator set signals

- Phase to neutral voltage
- Phase to Phase voltage
- Phase current
- Frequency
- Real, apparent and reactive power
- power factor

Engine signals

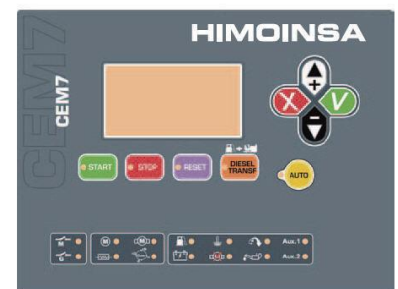
- Fuel reserve
- Oil pressure
- High coolant temperature
- Coolant level
- Emergency stop
- Battery charger alternator voltage
- Battery voltage

Generator set outputs

- Preheating
- Engine control (fuel output or stop pulse)
- Crank output
- Battery charging alternator excitation.
- General warning output

Optional Automatic Controller CEM7

The CEM7 is an Auto-start digital controller which is equipped on Himoinsa generator sets, which is able to control the operation, monitoring and protection of a generator-set.



Controller Display:

- Voltage between each Phase& Neutral
- Voltage between Phases
- Current (amps) on each Phase
- Frequency
- Active, Apparent, & Reactive Power
- Power Factor
- Instant Power (kWh) and Accumulative power
- Fuel level
- Oil pressure, coolant temperature
- Battery voltage, battery charging alternator voltage
- Engine Speed
- Hours running

Engine Alarms:

- High coolant temperature
- Low oil pressure
- Emergency stop
- Battery charging alternator
- Low coolant level
- Over Speed
- Under speed
- Low fuel level by sensor
- Battery low voltage

Generator Alarms:

- Over-load
- Unbalanced voltage
- Over-voltage
- Under-voltage
- Over-frequency
- Under-frequency
- Short-circuit
- Inverse Power
- Asymmetry among phases





Generator set features

Engine

- Diesel engine
- 4-stroke cycle
- Water-cooled
- 12V electrical system
- Radiator with blower fan
- Water separator filter (visible level)
- Mechanical governor
- Dry air filter
- 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)
- 4-pole thermal magnetic circuit breaker
- 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 isolator

Open set version

- Steel chassis
- Emergency stop button
- Anti-vibration shock absorbers
- Chassis with integrated fuel tank
- Fuel level gauge
- Fuel tank drain plug
- Steel industrial silencer -15db(A) attenuation
- Optional : · Fuel transfer pump
- Steel residential silencer -35db(A) attenuation.