

RENTAL POWER

GENERATOR SETS
FOR THE RENTAL SECTOR



HIMOINSA

POWER GENERATION SYSTEMS FOR THE RENTAL SECTOR



GENERATOR SETS

New generation of soundproofed generator sets for rental with Stage 3A engines, able to withstand heavy rain, humid conditions, snow and intense heat.

pg.6



CONTAINER SOLUTIONS

Special solutions for the rental market; generator sets that offer more power in less space, reducing operating and maintenance costs and functioning both at 50 Hz and 60 Hz

pg.16



FLEET MANAGER

Lets you know the status of the fleet of generator sets via mobile phone or Internet without having to travel to remote places. Real time information on the fuel level and overall status of the genset.

pg.22



LIGHTING TOWERS

Full range of versatile lighting towers with significant autonomy and a light output of up to 1,320,000 lumens. They have stabilising bases for operation on uneven surfaces.

pg.24



24/7 SERVICE

Technical assistance through an extensive network of authorised centres. 24-hour service for online purchasing of spare parts.

pg.30

HIMSA®



HIMOINSA

www.himoinsa.com

WE KNOW WHAT YOU NEED

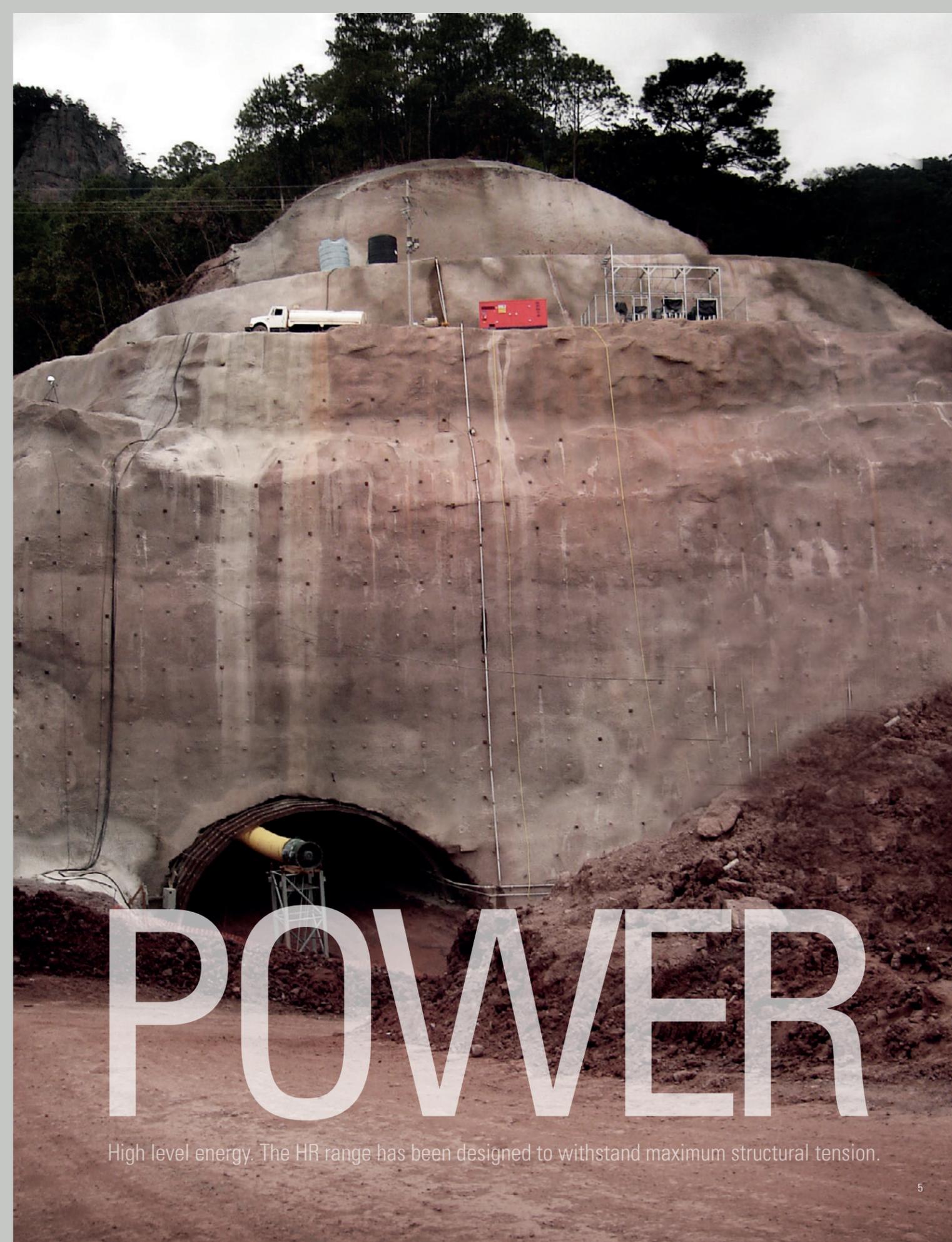
Generator sets which can WITHSTAND extreme working conditions; machines which WORK NON-STOP minimising running and maintenance costs; EASY TO MANAGE gensets that are simple to operate. In short, COMPACT and DURABLE gensets which will guarantee a PROFITABLE investment"



The unique feature of the rental sector is that the equipment may be used in a range of applications; such as events, Oil & Gas, construction, mining, IPP, water treatment. Also as temporary stand-by power for shops, hospitals or hotels. The HR rental range combines the solutions to all the needs of each of these applications in a single product.

CLEAN ENERGY 

HIMOINSA generator sets comply with international regulations on gas emissions, noise emissions and total protection against loss of fluids.



POWER

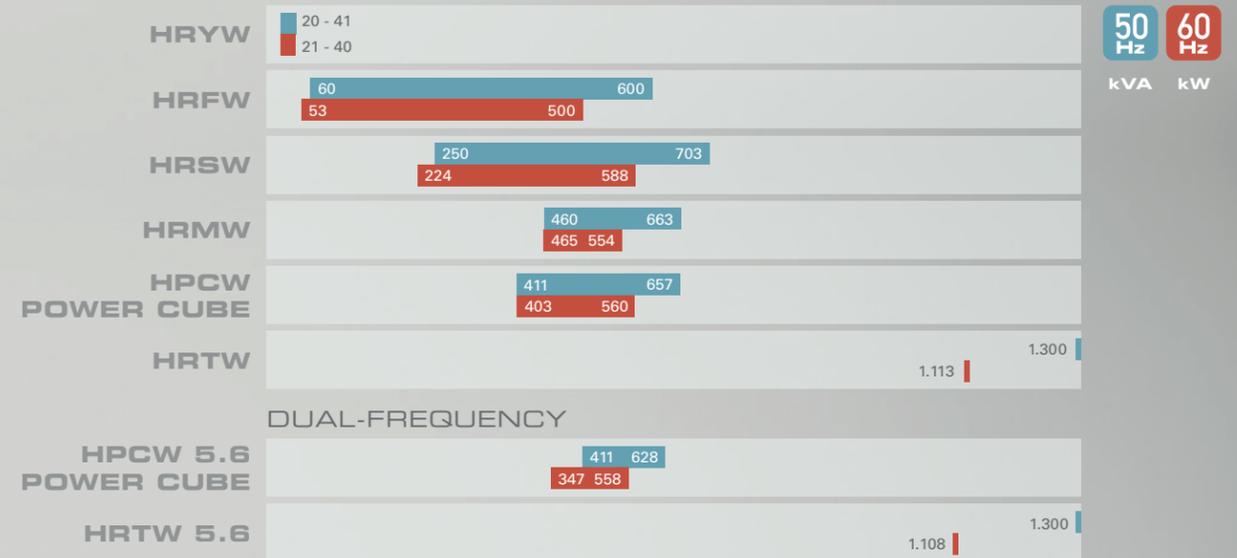
High level energy. The HR range has been designed to withstand maximum structural tension.

GENERATOR SETS RENTAL



SERIES	POWERED BY
HRYW	YANMAR
HRFW - HPCW	FPT
HRSW	SCANIA
HRTW	mitsubishi
HRMW - HPCW	MTU

Generator sets designed for the rental sector, with a standard power range of 20-1300 kVA scalable to higher power levels. The canopies are designed to optimise load capacity, both for wheeled land platforms, and in 20' or 10' ISO containers. A special kit is provided two 10' containers to be handled as if they were a 20' container. In addition, HIMOINSA provides CSC approval for maritime transportation.



POWER CUBE.
500 kW in 10'

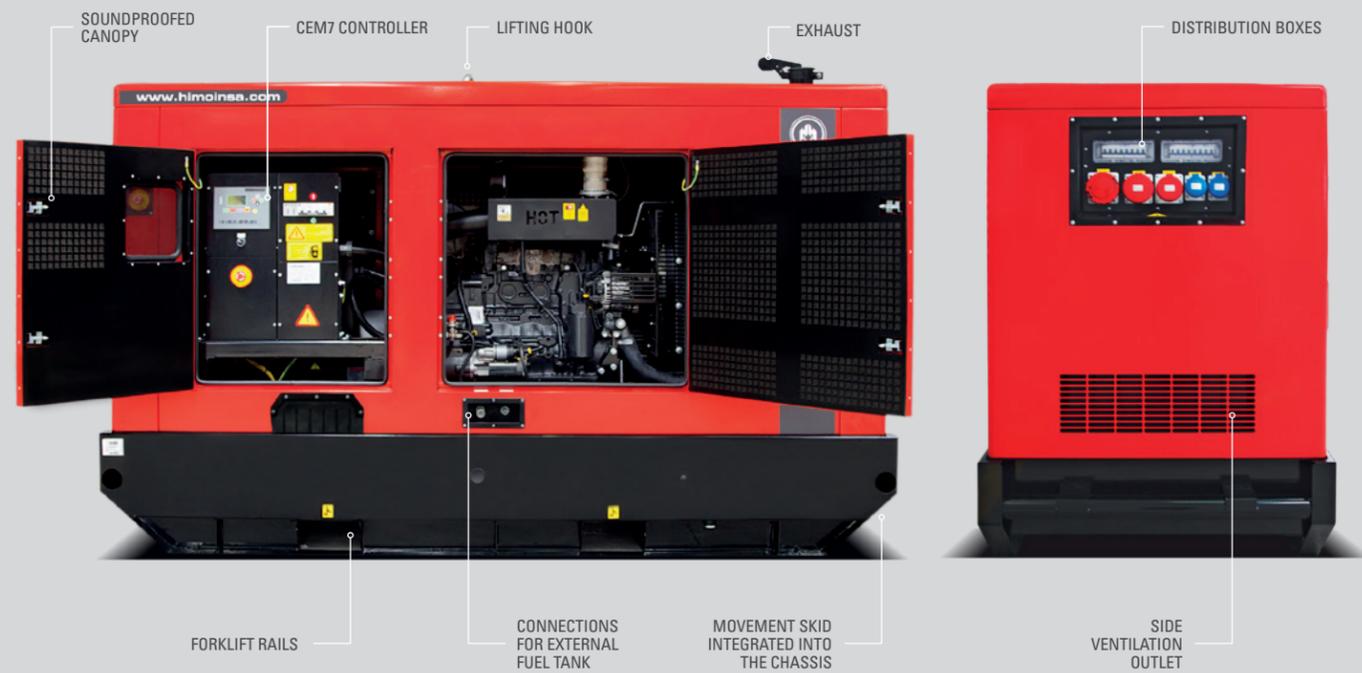
SOUNDPROOFED GENSETS with movement skid and fully sealed chassis

DUAL FREQUENCY 20' HRTW

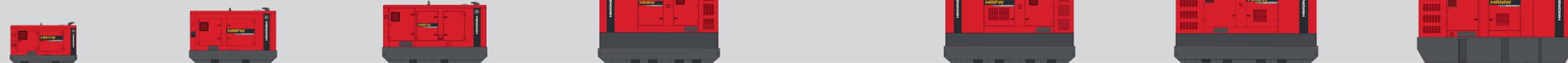
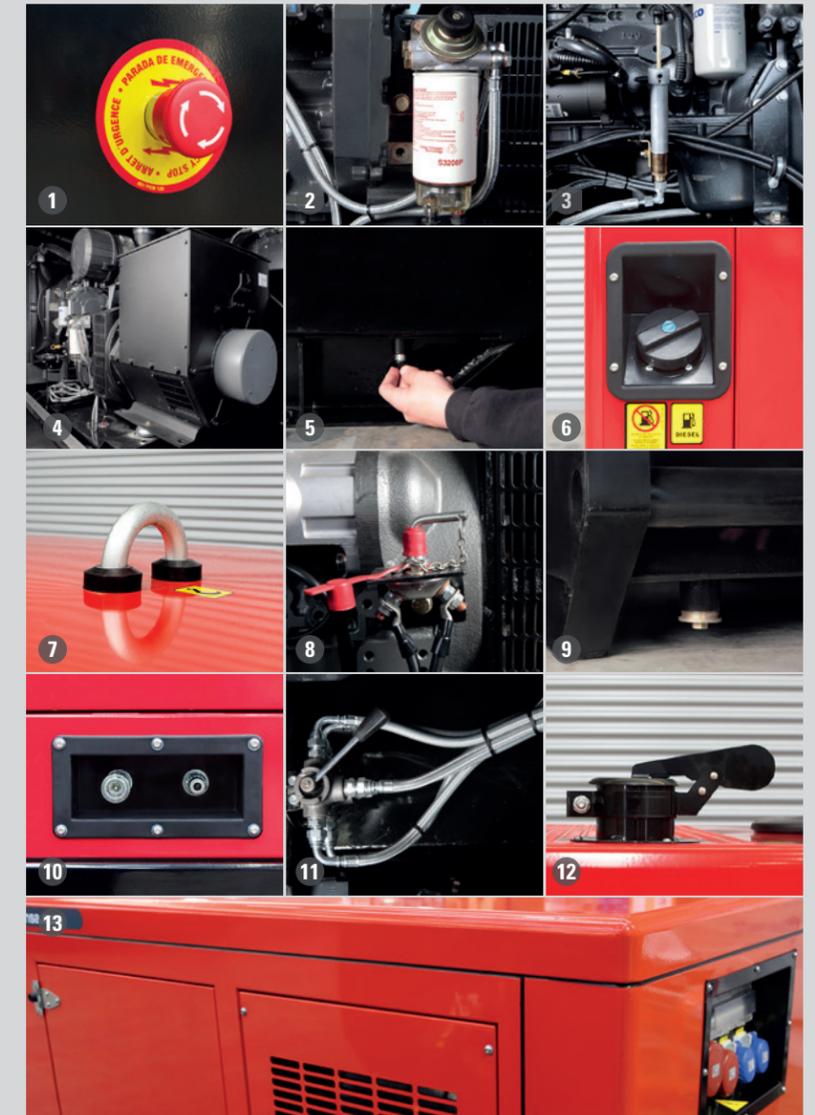


TECHNICAL DETAILS

THE TECHNICAL DESIGN DETAILS OF THE HIMOINSA RENTAL RANGE MAKE IT ONE OF THE MOST COMPETITIVE OPTIONS FOR THE RENTAL SECTOR.



1. Emergency stop
2. Fuel filter with decanting separator
3. Oil extraction pump
4. Permanent magnet alternator
5. Handhole for chassis cleaning
6. External filling of the fuel tank with safety key
7. Lifting hook
8. Battery disconnecter
9. Handhole for cleaning and draining the fuel tank
10. Preinstallation to house the quick connection plugs for fuel transfer
11. Three-way valve kit and quick connection plugs for fuel transfer
12. Exhaust outlet guard
13. All the canopy gaskets are protected by an external seal to minimize water ingress.



B10_R

2.150 (L) x 1.025 (W) x 1.329 (H) mm

D10_R

2.810 (L) x 1.150 (W) x 1.782 (H) mm

E10_R

3.360 (L) x 1.250 (W) x 1.997 (H) mm

F1_R

3.900 (L) x 1.450 (W) x 2.649 (H) mm

G1_R

4.200 (L) x 1.650 (W) x 2.665 (H) mm

H1_R

4.602 (L) x 1.850 (W) x 2.809 (H) mm

J10_R

5.000 (L) x 2.104 (W) x 2.714 (H) mm



CBR10 SOCKET BOXES
(GENSETS WITH B10R CANOPY)

SOCKET TYPE

16A 2P + T (x2)

16A 3P + N + T (x1)

32A 3P + N + T (x1)

CBR25 SOCKET BOXES

(GENSETS WITH C10R, D10R, E10R, F1R, G1R, H1R CANOPY)

SOCKET TYPE

16A 2P + T (x2)

16A 3P + N + T (x1)

32A 3P + N + T (x1)

63A 3P + N + T (x1)

NOTE: THE 60HZ RENTAL RANGE DOES NOT INCLUDE THE SOCKET BOXES IN THE SCOPE OF SUPPLY. THE CLIENT HAS TO REQUEST THE SOCKET BOXES TYPE AND ITS CONFIGURATION TO HAVE IT AVAILABLE.



SCOPE OF SUPPLY

MONOBLOCK COMPOSED OF ENGINE AND ALTERNATOR ASSEMBLED ON STEEL CHASSIS WITH VIBRATION ABSORBERS.

ENGINE

Diesel engine, 4-stroke, water-cooled, provided with:

- 12V electric start system for HRYW and HRFW gensets with N45 and N67 engines.
- 24V electric start system for HRMW, HRSW and HRFW gensets with C87, C10, C13 and CR16 engines
- Radiator with blowing fan for HRMW, HRYW, HRFW and HRSW gensets.
- Decanting separator filter with visible level for HRYW and HRSW, with no visible level for HRFW and HRMW.
- Mechanical regulation for HRYW (except for models with 4TNV98 ZGGEH and 4TNV98T ZGGEH engines which have electronic regulation) and HRFW with N45SM/TM and N67TM engines and electronic regulation for HRMW, HRSW and HRFW with N45TE, N67TE, C87, C10, C13 and CR16 engines.
- ATA/BPA bulbs for HRMW, HRSW and HRFW with N45TE, N67TE, C87, C10, C13 and CR16 engines.
- Radiator water level sensor for HRMW, HRSW and HRFW with N45TE, N67TE, C87, C10, C13 and CR16 engines.
- Dry air filter.
- Guards for hot and moving parts (exhaust, fan...)
- Crankcase oil extraction kit.

ALTERNATOR

- Alternator, self-excited and self-regulated.
- IP23 Protection. Class H insulation.

CONTROL AND POWER

- M5 control panel with a CEM 7 electronic control unit and emergency stop switch.
- Power control panel with plates embedded in the switch to facilitate connection of the direct cable and/or terminal.
- Safety output terminal block (circuit breaker tripped and alarm on control unit).
- Circuit breaker with differential protection device.
- Differential protection device adjustable according to time and sensitivity.

EXHAUST SYSTEM

- Steel residential silencer with noise reduction up to 32dB(A) and tilting cap on exhaust.

CANOPY

Soundproof canopy made of high quality sheet steel. Includes:

- Soundproof insulation made of high density rockwool, which increases the mechanical properties of the canopy and also provides a high rate of sound level absorption.
- Wide doors and water / oil monitoring, where necessary.
- External filling of the fuel tank with safety key up to E10R.
- Reinforced lifting hooks for lifting with cranes.
- Emergency stop button (double protection for emergency stop Interior on panel + Exterior on canopy).
- Mechanical parts for power cables outlet.
- Door with window to view control panel, alarms and measurements.
- Register for filling the radiator.
- Pre-installation or niche to house the quick connection plugs for transferring fuel up to E10R.
- Pressure locks.

CHASSIS

- Anti-leakage chassis, to retain liquids. (Collection tray) in accordance with current legislation. Includes large capacity fuel tank, with containment base and easy external filling.
- Register for cleaning and draining the fuel tank.
- Chassis cleaning registers.
- The chassis is oversized for the protection of the canopy and includes a tractor element and forks for forklift transport.

ELECTRICAL SYSTEM

- Battery charge alternator with earthing.
- Starter batteries installed and connected to the engine, including cables and supports.
- Battery terminal guard.
- Electrical earthing installation, with connection for earthing rod (not supplied).

THE AUTOMATIC VOLTAGE REGULATOR –AVR– HAS A SPECIAL RESIN COATING, WHICH MEANS IT CAN BE USED IN ANY OPERATING CONDITIONS.

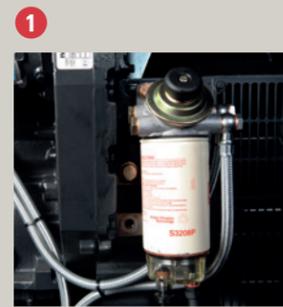


OPTIONAL FEATURES

RECOMMENDED

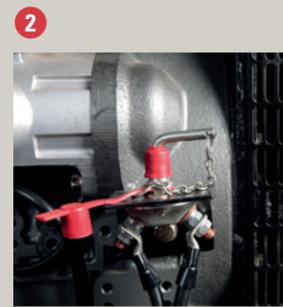
SUPPLY SYSTEM

1. Decanting separator filter with water detection kit and alarm signal.



ELECTRICAL SYSTEM

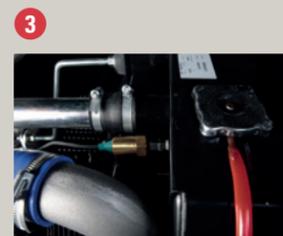
2. Battery disconnecter as standard on SCANIA, MTU and IVECO models with N45TE, N67TE, N67TM7, C87, C10, C13 and CR16 engines.



RENTAL PLUS RANGE

ENGINE

3. Radiator water level (standard with SCANIA, MTU engines, DOOSAN P222 engine models and IVECO models with N45TE, N67TE, N67TM7, C87, C10, C13 and CR16 engines.



ALTERNATOR

Anti-condensation heater.

ELECTRONICS

Installations for fleet management and control; GSM, GPS.

4. IP67 auxiliary base panel with individual circuit breaker protection. Direct access to



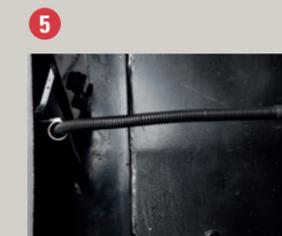
auxiliary bases with suitable protection.

CHASSIS

5. Liquid leakage detector.

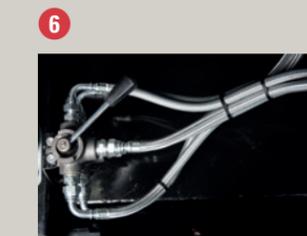
SUPPLY SYSTEM

6. Three-way valve kit and connection plugs for fuel transfer.



EXHAUST

Spark extinguishing safety device or kit for explosive atmospheres or environments with high flammability rating.



FUEL TANKS MADE OF HIGH RESISTANCE SHEET METAL OR HIGH QUALITY POLYETHYLENE, TO ENSURE A CONTINUOUS SUPPLY WITHOUT THE NEED TO REFUEL FOR 20-24H.



RENTAL SOUNDPROOFED GENSETS					HIGH CAPACITY	
CANOPY	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	CAPACITY	HEIGHT (mm)	CAPACITY
B10R	2,150	1,025	1,329	100 L	1,557	190 L
					1,557	330 L
D10R	2,810	1,150	1,782	240 L	1,928	450 L
					2,201	850 L
E10R	3,360	1,250	1,997	450 L	1,997	600 L
					2,210	1,100 L
F1R	3,900	1,450	2,649	999 L		
G1R	4,200	1,650	2,665	1,660 L		
H1R	4,602	1,850	2,809	2,090 L		
J10R	5,000	2,104	2,714	2,380 L		

HIGH CAPACITY FUEL TANK



POLYETHYLENE: B10R, D10R and E10R (standard capacity).
STEEL: B10R, D10R and E10R (large capacity). F1R, G1R, H1R and J10R.



TRANSPORTABILITY. Simple to transport, thanks to the unique lifting points and forklift rails, avoiding bending and displacement of components during lifting. CSC approval for maritime transport.



WEATHER RESISTANCE. Designed to deal with rain, ice, snow and high temperatures. Results which have been obtained without sacrificing acoustic performance or the ventilation and cooling ability of the engine which is guaranteed up to 55°C (derating applicable).



EASY TO MANAGE. Equipment designed with a user interface that is simple, user-friendly, intuitive and effective. HIMOINSA designs and manufactures electronic systems; the CEMx and Mx controllers, can communicate with the new Stage 3A engine protocols and interpret and handle complex safety algorithms, simplifying them so that they can be understood by any operator.



LOW RUNNING COSTS. Equipment designed to function tirelessly, minimising maintenance time. The aim is to guarantee that the final customer obtains the highest number of genset operating hours, as well as increased profitability for hirers.



WHY DO
RENTAL COMPANIES
 CHOOSE HIMOINSA GENERATOR SETS?

POWER CUBE

50Hz, 60Hz AND
DUAL FREQUENCY
MODELS



1. External filling of the fuel tank. 3-way valve for external fuel supply connections for external fuel tank.
2. Control panel at the top and power panel at the bottom.
3. Soundproofed engine compartment. LED lighting.



HRTW



1. External filling of the fuel tank. 3-way valve for external fuel supply connections for external fuel tank.
2. Wide access for maintenance.
3. Encapsulated air filters.
4. Fuel filtering system. Oil level auto-maintenance module.

SCOPE OF SUPPLY

HIMOINSA HAS DEVELOPED SPECIAL SOLUTIONS FOR THE RENTAL MARKET. EQUIPMENT THAT CAN WORK AT 50 AND 60 HZ; GREATER POWER, LESS SPACE AND REDUCED RUNNING, OPERATION AND MAINTENANCE COSTS.



HRTW

DUAL FREQUENCY

1 ENGINE

- Low coolant level sensor
- Exhaust gases compensator
- Standard air filter • Standard fuel filter • Standard oil filter
- Oil temperature sensor
- Diesel engine • 4-stroke cycle
- Water-cooled • 24V Electrical system • Remote cooling radiator • Electronic governor
- Water temperature gauge • Oil temperature gauge • Hot component and radiator guards
- Mobile component guards
- Water separator decanting fuel filter (visible level)

2 ALTERNATOR

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

3 CONTAINER

- 20 feet ISO Container
- Soundproof insulation made of high density volcanic Rockwool
- High mechanical resistance
- Low noise emissions • Door with viewing window for control panel, alarms and measurements • Hoisting points reinforced for lifting with cranes and lower points for transportation with forklifts
- Residential silencer made

of steel, noise reduction of 22-36dBA; tilting cap • Fuel tank integrated into the chassis

- 3-way valve for external fuel supply • Corrosion-proof anti-vibration shock absorbers
- Steel chassis • Robust construction designed for continuous or emergency applications • Stainless steel fittings • Emergency stop
- Easy access to the power connection • Reinforced chassis for heavy range • Easy access for chassis cleaning
- Easy access to fill radiator through the roof • Manual oil extraction pump • Automatic lube oil replenishment system with a 300L tank. • External connection to fuel tank.

4 ELECTRICAL SYSTEM

- Lighting system inside the container • Control panel and emergency stop button
- Power panel • Battery charger
- Water jacket heater • Battery charge alternator with earth connection • Maintenance free starting battery/ies installed and connected to the engine (supports included) • Earth connection electrical installation with connection ready for earthing rod (not supplied)
- 4-pole circuit breaker (T5 models). • The electrical system ensures engine starting and keeps batteries fully charged
- Battery switch.



HPCW
POWER CUBE



1 ENGINE

- Low coolant level sensor
- Exhaust gases compensator
- Standard air filter • Standard fuel filter • Standard oil filter
- Oil temperature sensor
- Diesel engine • 4-stroke cycle
- Water-cooled • 24V Electrical system • Remote cooling radiator • Electronic governor
- Water temperature gauge
- Oil temperature gauge • Hot component and radiator guards
- Mobile component guards
- guards • Water separator decanting fuel filter (visible level)

2 ALTERNATOR

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

3 CONTAINER

- 10 feet ISO Container
- Soundproof insulation made of high density volcanic Rockwool
- High mechanical resistance
- Low noise emissions • Door with viewing window for control panel, alarms and measurements • Hoisting points reinforced for lifting with cranes and lower points for transportation with forklifts
- Residential silencer made of steel; noise reduction up to 32dBA; tilting cap • Fuel tank integrated in the chassis • 3-way valve for external fuel supply
- Corrosion-proof anti-vibration shock absorbers • Steel chassis
- Robust construction designed for continuous or emergency applications • Stainless steel fittings • Emergency stop
- Easy access to the power connection • Reinforced chassis for heavy range • Easy access for chassis cleaning • Easy

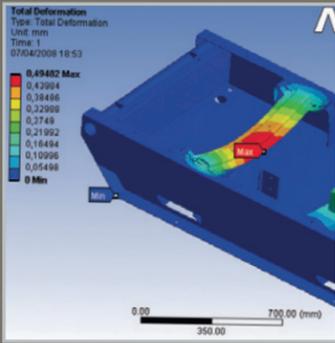
access to fill radiator through the roof • Manual oil extraction pump • Automatic lube oil replenishment system with a 50 L tank. • External connection to fuel tank.

4 ELECTRICAL SYSTEM

- Lighting system inside the container • Control panel and emergency stop button
- Power panel • Battery charger
- Water jacket heater • Battery charge alternator with earth connection • Maintenance free starting battery/ies installed and connected to the engine (supports included) • Earth connection electrical installation with connection ready for earthing rod (not supplied)
- 4-pole circuit breaker (T5 models). • The electrical system ensures engine starting and keeps batteries fully charged
- Battery switch.



The **PLUG AND PLAY** model offered by HIMOINSA allows quick installation and makes it possible to increase and/or reduce the power generated depending on the needs of each project.



HIMOINSA adds value through its **ENGINEERING SOLUTIONS**, a concept that defines the work of the company and that consists of designing and adapting all our power generation products to each market, based on extensive technical know-how.



As a **VERTICAL MANUFACTURER**, the company manufactures all the components of the generator set: alternators, engines, canopies, control panels, automatic transfer switches and paralleling systems.



All HIMOINSA generators are subjected to strict **QUALITY CONTROLS** before being sent to the customer, minimising any problems that may arise during commissioning.

OUR POWER, YOUR SUCCESS

HIMOINSA has extensive experience in the rental sector; working with major international rental companies; understanding market needs and designing gensets that are part of major rental fleets.

PARTNERSHIP

“ Our mission is to provide compact and reliable gensets, which can operate non-stop and are designed to withstand extreme conditions. Your mission is to incorporate them into your rental fleet enabling us to become a trusted partner. We guarantee 100% success. ”



FLEET MANAGER

CONFIGURATION AND MONITORING OF GENERATOR SETS REMOTELY AND IN REAL TIME. REDUCES FREQUENCY OF SITE VISITS AND OPTIMISES MAINTENANCE.



MOBILE ACCESS MANAGEMENT USING A CELL PHONE OVER THE INTERNET OR BY SMS.

The program allows you to set up 10 different telephone numbers with notification and/or control permissions.

Using a cell phone, it is possible to start or stop the machine or even to change its operating mode. It is also possible to read or write the configuration parameters (CE7 control units only).



PC ACCESS MANAGEMENT FROM ANY PC

Know the status and geo-positioning of the gensets and manage their maintenance. The only requirement is that the PC has to have Windows and it has to be connected to the Internet. The software provides updates on pre-programmed events and/or alarms; it features anti-theft devices and it allows you to control the unit remotely.

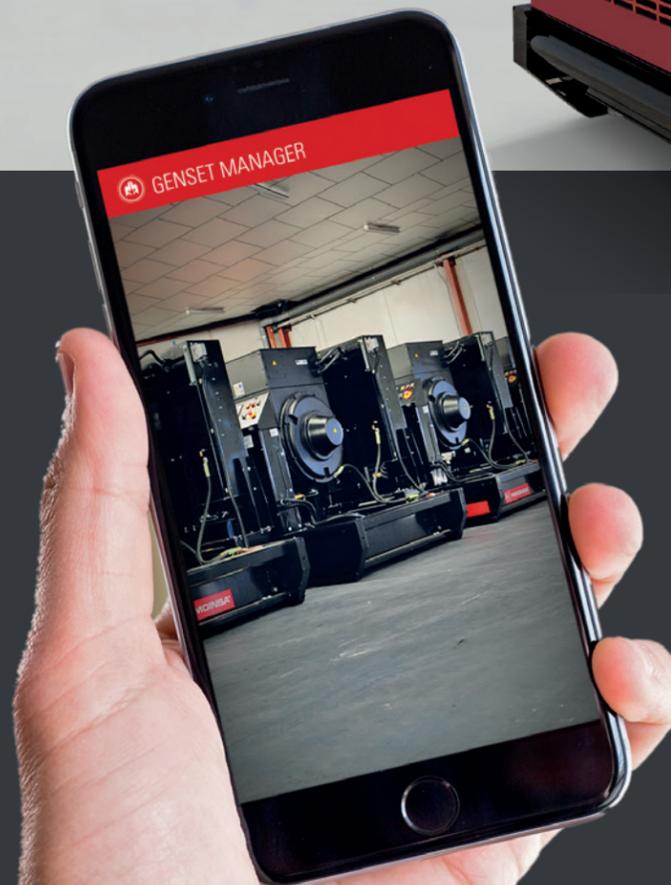


GPS LOCALIZATION.

The C2CLOUD kit uses GPS global positioning and accelerometer technology that makes it possible to locate the units and to detect any movements when the generator sets are switched off to raise the alarm in the event of a possible robbery.

OBTAIN CUSTOMIZED REPORTS

detailing the hours of operation, the energy generated, the consumption (in litres of fuel) and the performance of the gensets that make up your fleet.



1 Accessible information



ONGOING DATA PROCESSING

Access the status of all your gensets at any time and supervise their event history.

2 Statistics



DATABASE

The data generated by the generator sets are stored in the server. Statistics are created that allow you to understand how your units are running.

3 CSV reports



REPORT GENERATION

Information exportable to compatible formats (CSV). The system allows you to create an historical record of alarms, events, maintenance, consumption..., for subsequent processing and analysis.

4 Scheduled refuelling



The GenSet Manager automatically estimates the dates on which each genset needs to be refuelled.

5 Anti-theft alerts



The HG Manager application generates an alert that machinery is being stolen and a fuel alert. The anti-theft management function makes it possible to receive an alert SMS and to pinpoint its location by GPS positioning.

6 Maintenance manager



It enumerates the different units that have been added to the management map and it helps you plan the maintenance schedule for each genset.



LIGHT

The APOLO RANGE has been designed to work in extreme conditions and withstand temperatures from -20° to 55° C (derating applicable)

APOLO

PRODUCT MAP

TECHNICAL ICONOGRAPHIC INDEX USED IN THIS CATALOGUE

 Water	 Manual	 1500 1800 rpm	 KIT Kit	 Metal Halide Quartz Iodine	 Max. Height
 Air	 Hydraulic	 3000 3600 rpm	 360° Rotation	 LED	 Lumens

START
AS4005ECO

-  3000
3600 Rated Speed
-  Cooling System
-  LED (standard)
-  Lifting System
-  Rotation



START
AS4006V

-  1500
1800 Rated Speed
-  Cooling System
-  Metal Halide
-  Led (optional)
-  Lifting System
-  Rotation

COMPACT
STANDARD

-  1500
1800 Rated Speed
-  Cooling System
-  Metal Halide
-  Led (optional)
-  Lifting System
-  Rotation

COMPACT
HEAVY DUTY

-  1500
1800 Rated Speed
-  Cooling System
-  Metal Halide
-  Led (optional)
-  Lifting System
-  Rotation

COMPACT
ECO

-  3000
3600 Rated Speed
-  Cooling System
-  Led (standard)
-  Lifting System
-  Rotation

BOX
BOX

-  1500
1800 Rated Speed
-  Cooling System
-  Metal Halide
-  Led (optional)
-  Lifting System
-  Rotation

KIT TOWER
MINI KIT

-  KIT Kit
-  Metal Halide
-  Led (optional)
-  Lifting System
-  Rotation

KIT TOWER
**KT8000
KT12000**

-  KIT Kit
-  Quartz Iodine
Metal Halide
-  Led (optional)
-  Lifting System
-  Rotation

START
**AS4006
AS4008**

-  1500
1800 Rated Speed
-  Cooling System
-  Metal Halide
-  Led (optional)
-  Lifting System
-  Rotation



START

COMPACT

BOX

KIT TOWER

LONGER AUTONOMY LOWER CONSUMPTION EASY TRANSPORTATION

APOLO START

APOLO START lighting towers are designed to work in extreme conditions and withstand temperatures from -20 to 55 °C (derating applicable). The mast which is 9 metres high in the most models, rotates 360 degrees and folds manually and horizontally for optimal and easy transportation. Its lamps are vertically folded, allowing up to 18 units to be stacked in a 40' container (22 units for AS4005 eco).

APOLO COMPACT

Compact, autonomous and resistant to extreme conditions. These are the lighting towers that make up the APOLO COMPACT series. Its hydraulic mast can rotate 360 degrees and extends up to 9 metres with an elevation time of less than 25 seconds. Up to 9 units can be transported in a 40' container. Compact HEAVY DUTY lighting towers incorporate reinforced extensible stabilisers for uneven surfaces and for operation in areas with strong wind.

The Compact ECO model ensures low fuel consumption of between 0.4 and 0.7 l/hr and an energy saving of 40% due to its four Led lamps with an output of 350 W and its Yanmar engine with a power output of 5 kW. It has sufficient battery life for 166 hours of continuous operation.

APOLO BOX

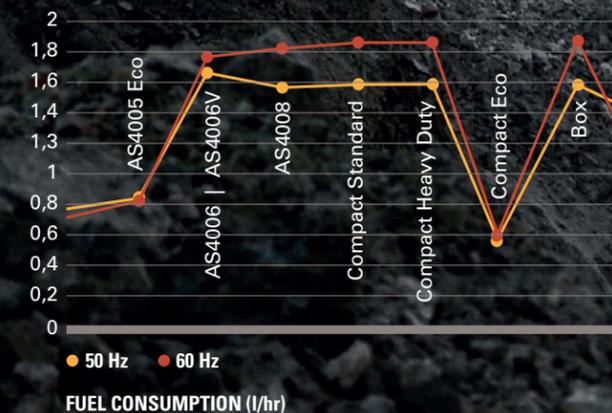
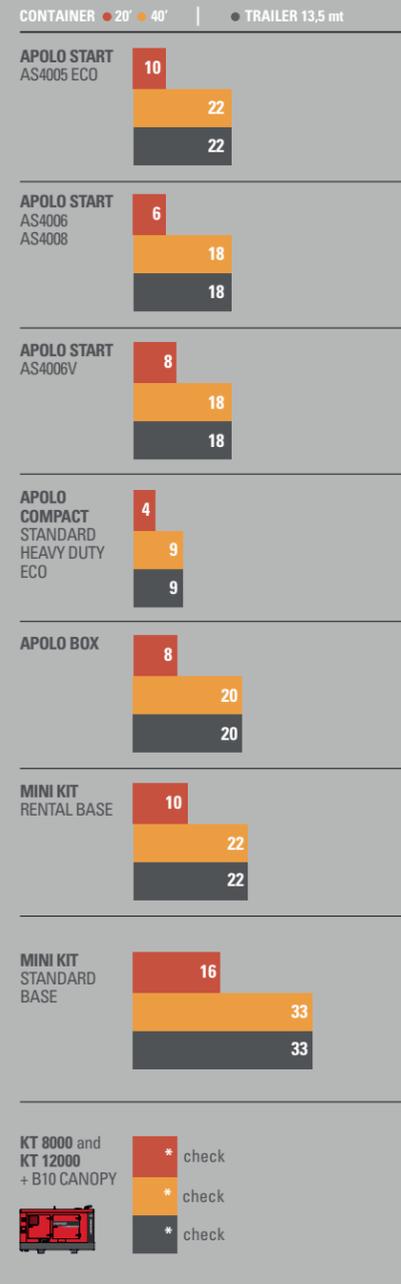
The APOLO BOX lighting tower is characterised by its size and square shape, two features that facilitate and optimise transportation. Up to 20 units can be fitted in a 40' container. It operates with an autonomy of 126 hours and has four 1000 W bulbs able to illuminate up to 33,000 square metres. The Apollo Box series also offers a LED version with 4 lights with 350 W output, guaranteeing lower consumption and therefore greater energy savings.

KIT TOWER SERIES

Lighting towers designed to be connected to generator sets. The Mini Kit or KT1000 tower is ready for connection to a single-phase generator set with a minimum power of 5.5 kW. With a light output of 433,000 lumens, the Mini Kit tower lights up to 33,000 square metres. Its design incorporates a stabilising base for operation on unstable surfaces.

The HIMOINSA generator sets installed in the KT8000 and KT12000 towers are soundproofed gensets with a B10 canopy, which guarantee high noise reduction. KT8000 lighting towers include 1,500 W quartz iodine lamps and offer a light output of 200,000 lumens, equivalent to 16,500 square metres of illumination.

To guarantee space optimization, the towers can be disassembled for transportation, with the exception of the Apollo Compact Series.



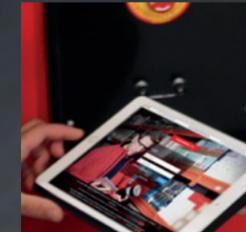
SERVICE AND SPARE PARTS



TECHNICAL SERVICE
Comprehensive technical support through qualified professionals and authorised technical centres.



FLEET MANAGER
Provides information on the location and status of the rented product.



HIMOINSA POWER SUPPORT
The digital platform that allows the client to report any breakdown in the generator set and to know at what stage any given process is at.



24/7 ONLINE SPARE PARTS
24-hour service for online purchasing of replacement parts.

HIMOINSA provides its customers with a fast and efficient technical service through a technical assistance network, distributed worldwide.

The spare parts department supplies original replacement parts for every component of the genset through a centralised system.

Personalised Assistance.

Technical experts provide the customer with a wide range of solutions throughout the lifetime of the product.

Quality Assurance.

After-sales service guarantees the investment made in purchasing the product through the extensive network of authorised support centres, distributors and the technical service.



HEADQUARTERS:

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