HIMOINSA
A YANMAR COMPANY

APOLO RANGE - MODEL

# Compact Eco M5

**APOLO COMPACT · Eco**

Powered by YANMAR

**9 meters**
Maximum Height

**191.820**
Lumens

**360º manual**
Rotation

SINGLE PHASE

FREQUENCY

R.P.M.

AIR-COOLED

LED

**Hydraulic**
Lifting system

DIESEL



**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.
- 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)
- 97/68/EC Emissions of gaseous and particulate pollutants. (amended by 2012/46/EU)
- EN 12100, EN 13857, EN 60204

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

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**Manufacture facilities:**
SPAIN • FRANCE • INDIA • CHINA • USA • BRAZIL • ARGENTINA

**Subsidiaries:**
PORTUGAL | POLAND | GERMANY | UK | SINGAPORE | UAE | PANAMA | DOMINICAN REPUBLIC | ARGENTINA | ANGOLA | SOUTH AFRICA

Index of technical icons used in this catalogue

| | | | | | |
|---|---|---|---|---|---|
| Water-cooled | Manual | 1500 1800 r.p.m. | KIT Kit | Metal halide Quartz iodine | Maximum Height |
| Air-cooled | Hydraulic | 3000 3600 r.p.m. | 360 Rotation | LED | Lumens |

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## Specifications

| | | |
|---|---|---|
| Power (P.R.P) | kVA | 4,5 |
| Voltage (1 + N) | V | 230 |
| Maximum dimensions | (L x W x H) | 2425 x 2634 x 9219 |
| Minimum dimensions | (L x W x H) | 2425 x 1340 x 2033 |
| Weight | Kg | 749 |
| Fuel tank capacity | L | 100 |
| Tank refilling | | External |
| Autonomy | Hours | 166 |
| Noise level (power at 7m) | | 90 LWA - 65 dB(A) |

## Engine Specifications 3.000 r.p.m.

| | | |
|---|---|---|
| Model | | YANMAR L100N5 |
| Engine Type | | 4-stroke diesel |
| Injection Type | | Direct |
| Aspiration Type | | Natural |
| Number of cylinders and arrangement | | 1-L |
| Bore and Stroke | mm | 86 x 75 |
| Displacement | L | 0,435 |
| Cooling System | | Air |
| Lube Oil Specifications | | SAE 3 class 10W30 / API grade CD,CF |
| Fuel consumption (lights only) | L/Hr | 0,4 - 0,7 |
| Governor | Type | Mechanical |
| Air Filter | Type | Dry |

## Generator

| | | |
|---|---|---|
| Poles | nº | 2 |
| Connection type (standard) | | Series |
| Mounting type | | J609 B/6 |
| Insulation | Class | H class |
| Enclosure (according IEC-34-5) | | IP23 |
| Exciter system | | Self-excited, brushless |
| Voltage regulator | | Capacitor |
| Bracket type | | Single bearing |
| Coupling system | | -------- |
| Coating type | | Standard (Vacuum impregnation) |



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## Mast

| | | |
|---|---|---|
| Mast type | | Hydraulic |
| Mast sections | | 9 |
| Raising / lowering time | | 13/25 sec |
| Rotation | | 360º manual |
| Double safety block | | Standard |
| Lamps | nº | 4 x 350 W |
| Lamps type | | LED |
| Total lumens | lm | 4 x 47.955 = 191.820 |
| Remaining power | kW | 3,1 |

## Bodywork

| | |
|---|---|
| Canopy | Standard |
| Retention tray | 120 % |
| Auxiliary sockets | 2 x 16 Amp |
| Auxiliary input supply socket | 1 x 32 Amp |
| Lifting hook | Standard |

## Chassis

| | |
|---|---|
| Chassis traction kit | Standard |
| Signalling lamps | Standard |
| Wheels | 2 x 165R13 |
| Stabilisers | 4 |
| Bracket holders | Standard |

## Control panel

| | |
|---|---|
| Control and protection panel | M7T manual controller |
| Thermal magnetic switches to protect the spotlights and auxiliary sockets | Standard |
| Manoeuvring push buttons | 2 (1 rising, 1 descending) |



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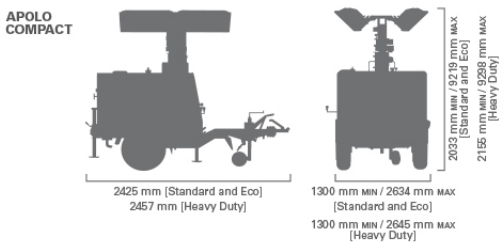
## Dimensions



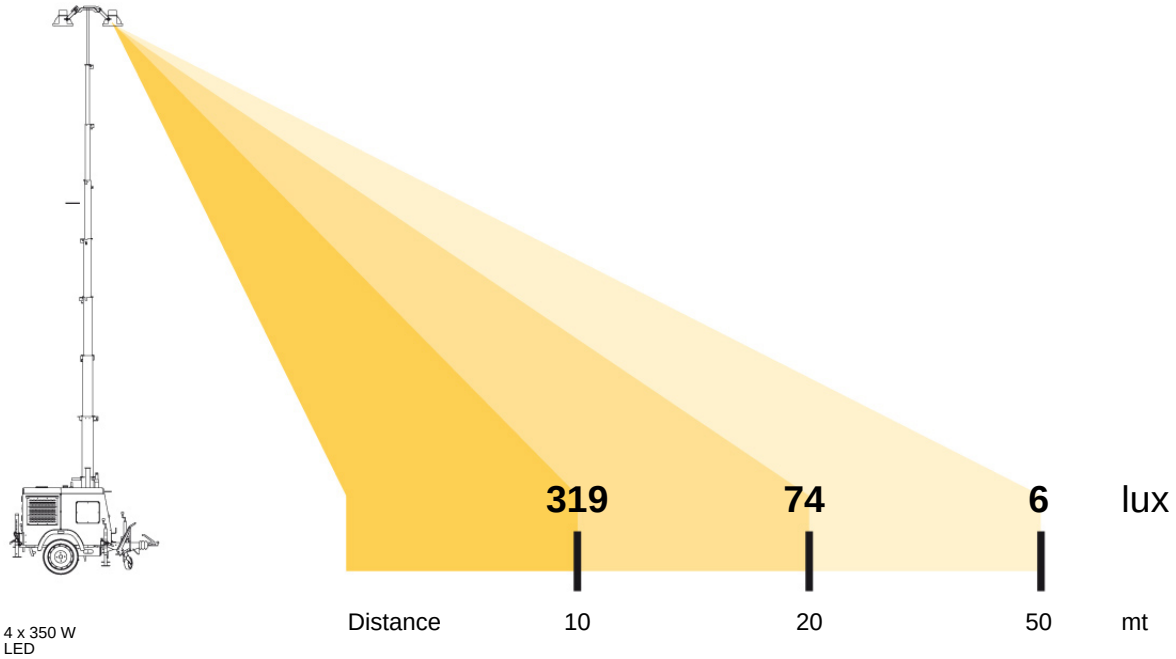

| | | |
|---|---|---|
| Maximum dimensions | (L x W x H) | 2425 x 2634 x 9219 |
| Minimum dimensions | (L x W x H) | 2425 x 1340 x 2033 |

DIMENSIONS CORRESPOND TO THE TOWERS MOUNTED WITH FLOODLIGHTS

| | | | |
|---|---|---|---|
| *** Amounts related to dismantled towers** | 4 Units * | 9 Units * | 9 Units * |



## Light range

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## Features

### Lighting tower

- Hydraulic telescopic mast with 9 sections
- Reaches a working height of 9 meters
- Emergency stop
- Wide accesses for maintenance and control
- 4 stabilizers, two of which are extensible to guarantee stability
- Bubble level located at the top of the genset
- The tower is prepared for road transportation
- Jockey wheel included
- Draw bar with ball coupling
- Electrical connections for signalling lights (brakes lights, turning lights), reflectors and hand brake
- Includes lifting hooks and bracket holders
- Rings for fixation during transport
- Wheels: 2 x 165R13

Optional :
- High fixed draw bar
- 14" wheels

### Electric System of the Lighting Tower

- M7 controller
- Electrical control panel with earth leakage protection
- Watertight panel, for control, protection and managing
- Siren
- Thermal magnetic switches for spotlights and auxiliary sockets
- 2 manoeuvring push buttons (the upper button controls the vertical raise of the mast and the lower button controls the descent)
- The raising and descent of the mast is controlled only through 12 Vdc from the battery
- Two 16 amps auxiliary power sockets for the supply of power to auxiliary equipment
- One 32 amps supply auxiliary entry that allows the supply of current from an external source



Himoinsa 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

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# M7T Control Panel

| MULTILINGUAL CONTROL PANEL |
|---|
| · Single-phase voltage |
| · Current (A) |
| · Frequency (Hz) |
| · Active, apparent power (kW, kVA) |
| · Oil pressure and water temperature (kPa, ºC) |
| · Battery voltage, battery charging alternator voltage (V) |
| · Engine Speed (rpm) |

| ENGINE ALARMS |
|---|
| · High coolant temperature |
| · Low oil pressure |
| · Battery charge alternator failure |
| · Start failure |
| · Low water level |
| · Overspeed |
| · Underspeed |
| · Low battery voltage |
| · High coolant temperature (analogue) |
| · Low oil pressure (analogue) |
| · Low fuel level |
| · Unexpected shutdown |
| · Stop failure |
| · Emergency stop |

| GENERATOR ALARMS |
|---|
| · Overload |
| · Over-voltage |
| · Under-voltage |
| · Over-frequency |
| · Under-frequency |
| · Over-current |
| · Inverse power |
| · Emergency stop |



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