HIMOINSA
A YANMAR COMPANY

APOLO RANGE - MODEL

Compact Eco S5

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

STAGE V

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.

HIMOINSA HEADQUARTERS:
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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

ISO 9001 SYSTEM CERTIFICATION

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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
Noise level (power at 7m)		90 LWA - 65 dB(A)

Engine Specifications 3.000 r.p.m.

Model		YANMAR L100V5
Engine Type		4-stroke diesel
Injection Type		Direct
Aspiration Type		Natural
Number of cylinders and arrangement		1 - Vertical
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
Governor	Type	Mechanical
Air Filter	Type	Semi-humid

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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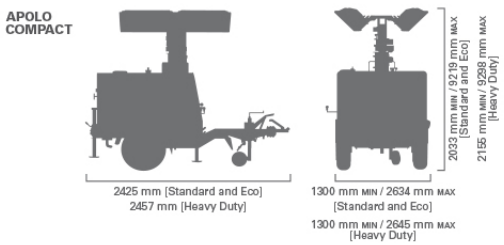
Dimensions

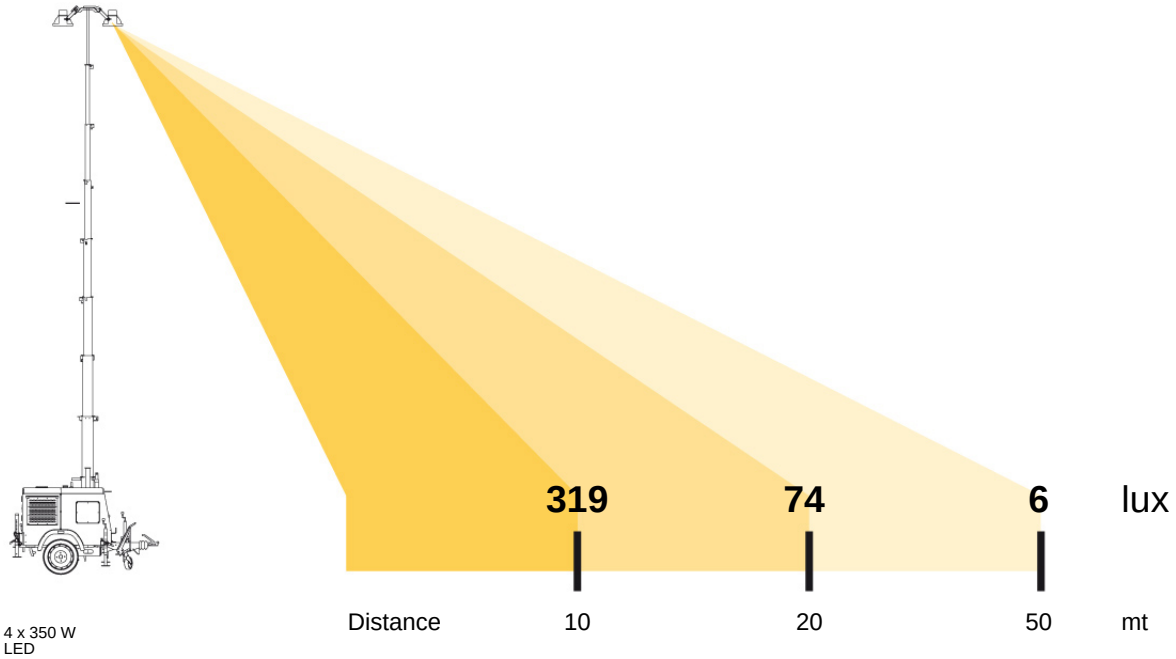


Maximum dimensions	(L x W x H)	2425 x 2634 x 9219
Minimum dimensions	(L x W x H)	2425 x 1340 x 2033

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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