HIMOINSA
A YANMAR COMPANY

H-BOX+ M5

LT - LIGHTING TOWERS
Powered by YANMAR

EFFICIENCY | BEST-IN-CLASS

0,55 l/h | 55 dB(A) | 400 hr | 600 hr SERVICE INTERVAL

ROBUTNESS AND SAFETY

8,3 mts. | 360º | HYDRAULIC UPRAISING SYSTEM

CONNECTIVITY | MAST CONTROL

BLUETOOTH | CHAIN WORK | MAS CONTROL WITH JOYSTICK

LIGTHING

1.400 W | 210.000 lm | 6.400m^2 | LIGHT POWER OUTPUT CONTROL SYSTEM

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)
- 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 8528-1:2018 normative: 1000 mbar, 25ºC, 30% relative humidity.

Prime Power (PRP):
According to ISO 8528-1:2018, 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 24h of operation shall not exceed 70 % of the PRP.

Emergency Standby Power (ESP):
According to ISO 8528-1:2018, 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 200h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24h of operation shall not exceed 70 % of the ESP

G2 class load acceptance in accordance with ISO 8528-5:2018

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General Specifications

Power (P.R.P.)	2,8 kW
Voltage (2 + N)	230 V
Max. Dimensions (operating mode) LxWxH	1895 x 1810 x 8300 mm
Min. Dimensions (transport mode) LxWxH	1190 x 1150 x 2435 mm
Weight	960 Kg

Fuel Tank Capacity	220 L
Fuel Consumption (only lights)	0,55(*)
Fuel Tank Filling	Internal
Max.Running Time (only lights)	400 hours
Noise Level @ 7m	55 dB(A)

(*) According to ISO standar conditions

Engine Specifications | 1.500 .P.M.

Manufacturer	YANMAR
Model	2TNV70WHR
Engine Type	4-stroke diesel
Injection Type	Indirect
Apiration Type	Natural
Number of cylinders and arrangement	2 -L
Bore and Stroke	70 x 74 (mm)

Displacement	0,57 L
Cooling System	Liquid (water + 50% glycol)
Engine Oil Specifications	Class SAE3 10W30/API CD,CF degree
Compression Ratio	23,4
Governor	Mechanical
Air Filter	Seco
Inner Diameter Exahust Pipe	40 mm
Service Interval	600 hours

- Diesel engine
- 4-stroke cycle
- Water-cooled
- 12V electrical system
- Water separator filter (visible level)
- Mechanical governor
- Radiator with pusher fan
- Dry air filter
- Hot parts protection
- Moving parts protection

Alternator Specifications

Manufacturer		Mecc Alte
Model		LT3 N100
Poles	nº	4
Connection Type (standard)		Series
Mounting Type		S-5 7"1/2
Insulation		H Class

Enclosure (according IEC-34-35)	IP21
Exciter System	Self-excited, brushless
Voltage Regulator	Capacitor
Bracket Type	Single bearing
Coupling System	Flexible disc
Coating Type	Standard (Vacum impregnation)

MAST

Mast type	Hydraulic
Mast sections	8
Mast speed (up/down)	13/25 sec.
Rotation	360º (manual)
Double security lock	Standard
Lamps	4 x 350W
Lamps type	LED
Total lumens	4 x 52.500 = 210.000
Coverage area	6.400 m2
Remaining power	1,4 kW

CANOPY

Canopy	Standard. PE Heavy duty PE roof
Aux. sockets	2 x 16A - IP67
Input supply	1 x 32A - IP67
Bunded tank	110%
Door in the roof	Standard
Lifting hook	Standard, integrate in the PE roof

CHASSIS

Stabilizers	4 with internal lock
Forklift pockets	4 sides. Hot galvanized

CONTROL PANEL

Control and protection controller	CET8 manual controller
Circuit breakers + Earth leakage relays for the protection of lamps and auxiliary sockets protection	Estándar
Mast maneauvering	Joystick (up/down)

Features

Lighting tower

- Hydraulic telescopic mast with 8 sections
- Reaches a working height of 8,3 m
- Bubble level located at the bottom of the mast
- Guide system for fixing during transport
- 4 extensible stabilizers to guarantee stability
- Exhaust outlet
- Inclination of lamps up to 180º
- Top door with gas springs and indoor pushbuttom opening system
- Lifting hook and hot galvanized forklift pockets on all 4 sides
- Emergency stop
- Wide access for maintenance and control
- Area Coverage > 20 lux average: 6400 m2
- Light power output control system
- Light signal at the top of the mast (Optional)
- Safety Mast (Optional)
- C2Cloud (Optional)

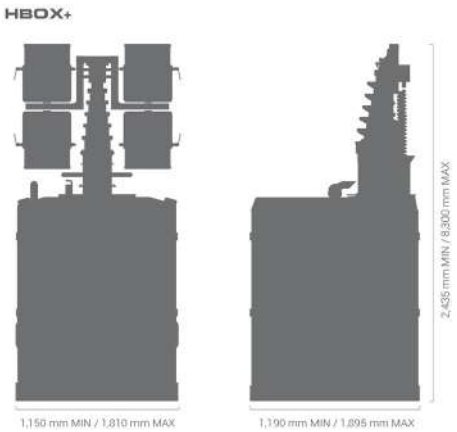
Lighting tower electrical system

- Electrial control panel with earth leakage protection
- Siren
- Circuit breakers for lamps and auxiliary sockets
- Two 16A-IP67 auxiliary sockets for the supply of power to auxiliary equipment
- One 32A-IP67 supply auxiliary entry that allows the supply of current from an external source
- Watertight panel for control, protection and managing
- CET8 control unit
- Manoeuvring joystick (up/down mast)

DIMENSIONS AND WEIGHT

Max.Dimensions (operating mode) LxWxH	1.895 x 1.810 x 8.300 mm
Min.Dimensions (transport mode) LxWxH	1.190 x 1.150 x 2.435 mm
Maximum shipping volume	3,33 m^3
Weight (no fuel)	960 Kg

Dimensions of lighting tower mounted with lamps



TRANSPORTABILITY

20 units | 40'HC Container

22 units | Truck 13m

Amount correspond to the towers mounted with lamps

AVERAGE ILLUMINATION vs DISTANCE

H-BOX+		10 m	24 m	50 m
4 x 350W LED Mast Height: **8,3m**	lux	300	150	50