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Mobile Lighting Tower



Technical Specifications

Mobile lighting generators in AREL's product range are produced as single-axle or double-axle mobile at the desired power in a customer-oriented manner. The mast part is designed in three different ways for different tower heights: hydraulic telescopic, hydraulic tilting and mechanical tilting. The lighting fixtures on the light tower are used according to customer preference as three different types as Metal Halide, Sodium Vapor or Halogen type.

SCOPE

Below are the technical specifications of the ARL10L+7M4H model 9 kva continuous – 10 kva standby power, 220/380V, 50 Hz, 7m mechanical mast, single axle trailer mobile floodlight generator. Starter battery and industrial type exhaust muffler are offered as standard with the system.

ENGINE

Lombardini LDW1003 type diesel, 3 cylinders, 1500 rpm. Weighing 85 kg, fuel consumption at full power is 4.6 lt/h

ALTERNATOR

Brand : AREL Made in Turkey

Power : 12 KVA Three Phase

Voltage : 380 + / - 5%

Ampere : 3x18 Amp.

Frequency: 50 Hz.

Number of Revolutions : 1500 RPM

Type : Synchronous Tempered Wound

Insulation : H Class

Protection : IP23

COUPLING

The engine and alternator are directly coupled and mounted on the steel chassis system by means of anti-vibration wedges.

PANEL

The control panel, which is manufactured from sheet steel, in IP44 protection class, with electrostatic powder oven paint, has the indicators and equipment listed below.

- 1 voltmeter
- 1 ammeter
- 1 operating timer
- 1 manual control unit
- start-stop switch
- digital frequency indicator
- audible-light warning in case of low oil pressure and automatic stop device
- audible-light warning in case of high temperature and automatic stop device
- audible-light warning and automatic stop device in case of low fuel level
- audible-light warning and automatic stop device in case of high / low speed

- 1 battery charge indicator
- 1 fuel level indicator
- 1 main fuse - lamps and output sockets
- 3 fuses - for turning on and off the lamps
- 1 single-phase output socket and automatic fuse
- 1 three-phase output socket and automatic fuse
- 1 emergency stop button

CABIN

- Protects the system against all kinds of bad weather conditions
- Made of steel sheet
- Lockable type side covers
- Opportunity to observe the operation of the system thanks to the lockable type glass cover in front of the control panel
- Large interior volume that allows all service and maintenance operations to be carried out easily
- Electrostatic powder oven painted
- Design that provides the necessary air circulation for the generator to work comfortably even when the doors are closed
- Robust structure suitable for heavy-duty conditions

TRAILER

- Single axle
- Made of U-profile steel material
- Leaf-spring spring suspension system suitable for rough terrain conditions
- Daily fuel tank mounted on the trailer chassis with a capacity of at least eight hours of continuous operation at full load (there is a float, filling plug and drain plug in the tank.) - Own swivel towing eye
- Support leg on drawbar
- Robust construction suitable for heavy-duty conditions

MAST

Interlocking galvanized steel square profiles are first brought from horizontal position to vertical position by two cranes with brake mechanism, they can be raised to a maximum of 7m from the ground in vertical position and can be fixed at any height. Thanks to the square profiles used, the mast's wind, etc. uncontrolled rotation is prevented by the effects.

Optional: The mast can be rotated 360° on the vertical axis in order to adjust the lighting direction.

LIGHTING UNIT

It consists of 4x1000W halogen fixtures and bulbs mounted on a profile chassis system. Luminaires can be turned on and off with the help of the switch on the control panel.

APPROXIMATE DIMENSIONS

Length x Width x Height: 430 x 180 x 190 cm. Weight 980 kg.

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