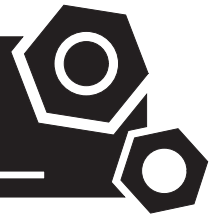


## Mobile light tower

### MC2000

# SPECIFICATIONS



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# Mobile Light Tower MC2000



## 1 Standards & Conditions

### Design Standards

The designs and the productions are in conformity with:

- GB T 1883.1-2005
- JB8891-1999
- GB252-2011
- GB20891-2014
- GB4208-2008
- AS3000: 2018
- AS3010: 2017

### Design Conditions

- Installation place: outdoors.
- Ambient temperature: -15°C to 50°C. The coolant heater is needed when the temperature is below 0°C
- Humidity: Less than 90%.
- Altitude: Less than one thousand (1000) meters above sea Level.

### Painting Process

- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

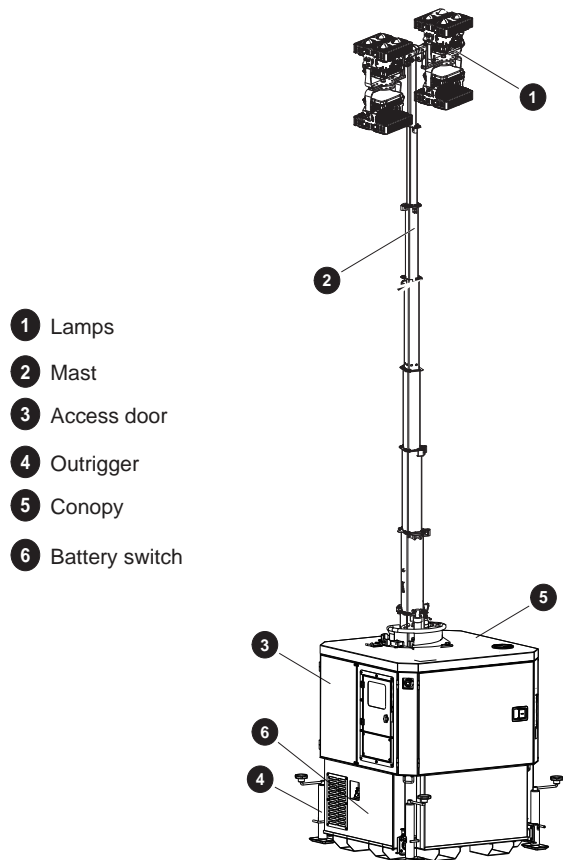
## 2 General Features

- Kubota engine Z482-E4B-ACP-1
- DC/VF alternator PMG-DC-18-3
- Microprocessor control module PLC-805
- Governor type : Electronic control
- Eight masts with manual rotation 359°
- 4x500W metal LED lamps
- 1x12V/70AH sealed for life maintenance free battery(supply for engine)
- Emergency stop switch
- Lockable battery isolator switch
- Powder coated canopy
- Vibration isolators between the engine/alternator and base frame
- Dry type air cleaner
- Fuel tank( 260 running hours under full load)
- Easy maintenance (easy to replace the current rectifier etc.)
- Operation Manual / Specifications

## 3 Equipment Specification

Model.....	MC2000
Light type.....	LED
Luminous flux(Max)lm.....	202600
Light intensity(Max)cd.....	213125
Tank capacity.....	200L
Wet weigh.....	1060 kg
Dry weigh.....	880 kg
Total lighting wattage.....	4x500W
Dimensions (Fully retracted).....	1167x1133x2390mm
Dimensions (Fully extended).....	1756x1722x8200mm
Tilting Angle of Light Fixture rotation.....	90°
Sound pressure level @7m.....	53dB(A)
Fully extended/retracted time.....	11/13s
Hydraulic oil type.....	L-HM46
Hydraulic oil tank capacity.....	5L
Rated load output.....	3.0kW
Voltage/Ampere.....	DC 48V/62.5A

Light Tower Fuel Consumption		
Number of running lamp	2xLamps	4xLamps
Fuel Consumption(L/h)	0.48	0.76



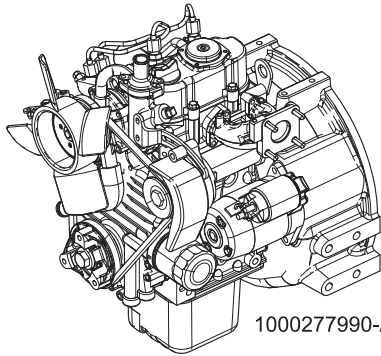
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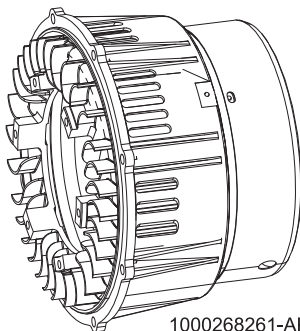
## Engine



1000277990-AP1-A1

Engine Manufacturer/Brand.....	KUBOTA
Engine Model.....	Z482-E4B-ACP-1
Dimensions LxWxH.....	487.9x412x564.2mm
Dry Weigh (approx.) .....	80Kg
Number of Cylinders.....	2
Bore.....	67mm
Stroke.....	68mm
Displacement.....	0.479L
Compression Ratio.....	23.5
Type of Injection.....	Spherical Type (E-TVCS)
Intake System.....	Natural aspirated
Intake Resistance.....	≤2.45kPa
Cooling System .....	Water cooled
Fan .....	Pusher
Battery Voltage.....	12V
Type of Fuel.....	No.2-D (ASTMD975)
Type of Oil .....	API -CH
Oil Capacity .....	2.5L
Type of Coolant .....	Glycol mixture
Back Pressure.....	9.33kPa
Speed .....	1800rpm
Prime Power .....	4.6kW

## Alternator

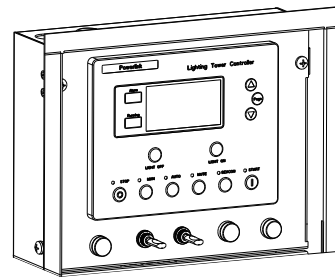


1000268261-AP1-A1

Alternator Manufacturer/Brand..... POWERLINK

Alternator Model .....	PMG-DC-18-3
Stator Pole Number.....	30
Speed.....	1800rpm
Voltage(DC).....	48V
Altitude.....	≤1000m

## PLC-805 Control System



1000271050-AP1-D4

PLC-805 is an advanced control module based on microprocessor, apply to AC/DC light tower. The controller is equipped with a powerful graphic display showing icons, symbols and bar graphs for intuitive operation. Accurately measure various operational parameters and display all values and alarms information on the LCD.

- Microprocessor control, with high stability and credibility
- Monitoring and measuring operational parameters of light tower
- Indicating operation status, fault conditions, all parameters and alarms
- Manual, automatic and remote work mode selectable
- Multiple protections; multiple parameters display, like pressure, temp. etc.
- Overall power output display
- Real time clock for time and date display, overall runtime display, 99 log entries
- Communication with PC via RS485 interface, using MODBUS protocol

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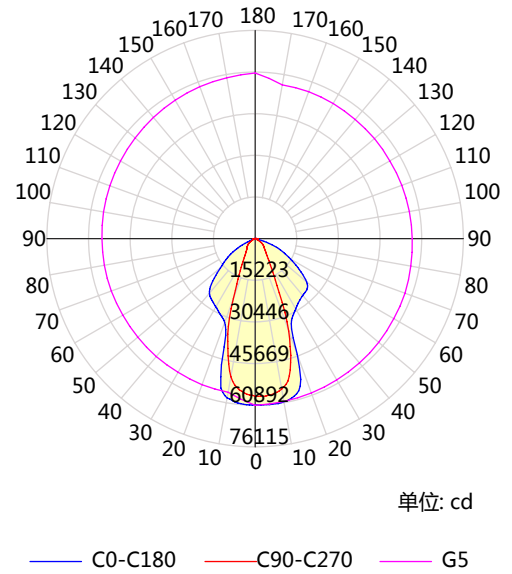
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## 4 Luminaire

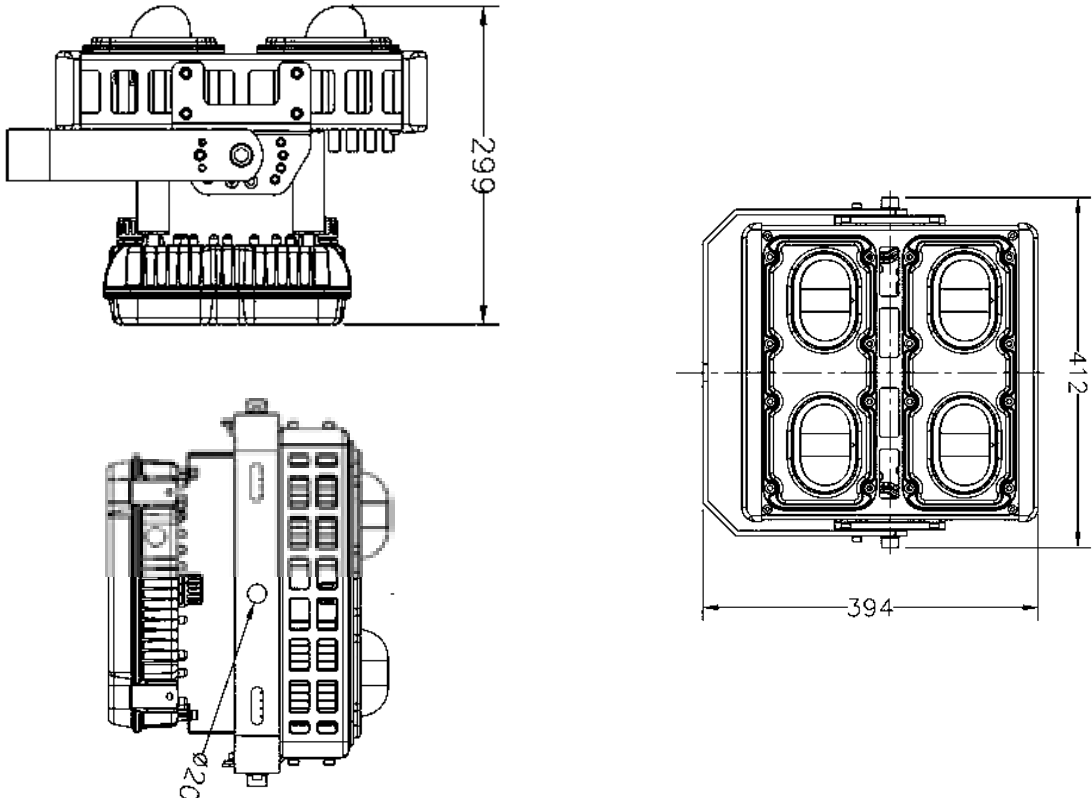
### Luminaire Data:

Item	Description
Rated power	500W
Rated luminous flux	54661.8 lm
Luminaire efficiency	100%
Upper luminous flux ratio	1%
Center light intensity	60740.43 cd
Peak light intensity position	H0 V5
Luminous flux of lamps and lanterns	54661.8 lm
Lower luminous flux ratio	99%
Lamp luminous efficiency rating	110.59
Peak light intensity	60892.13 cd

### Luminous emittance 1:



### Out-line:



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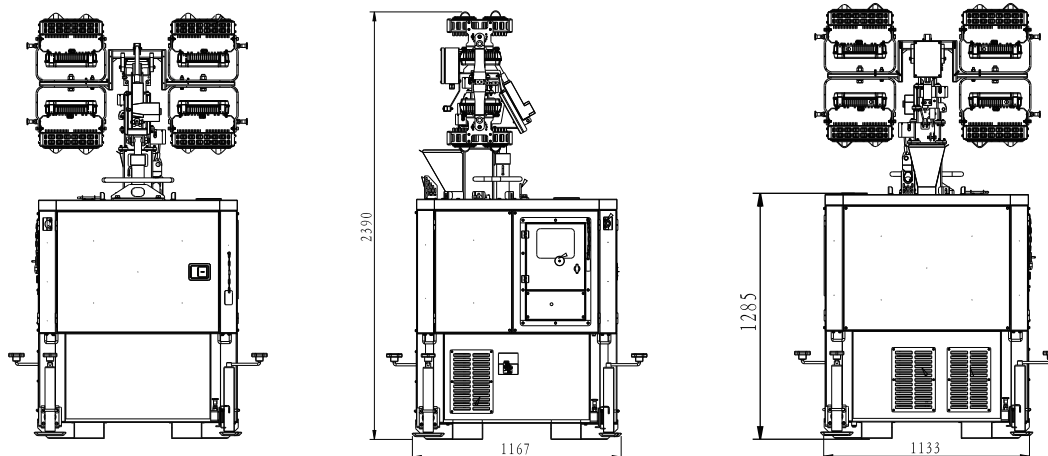
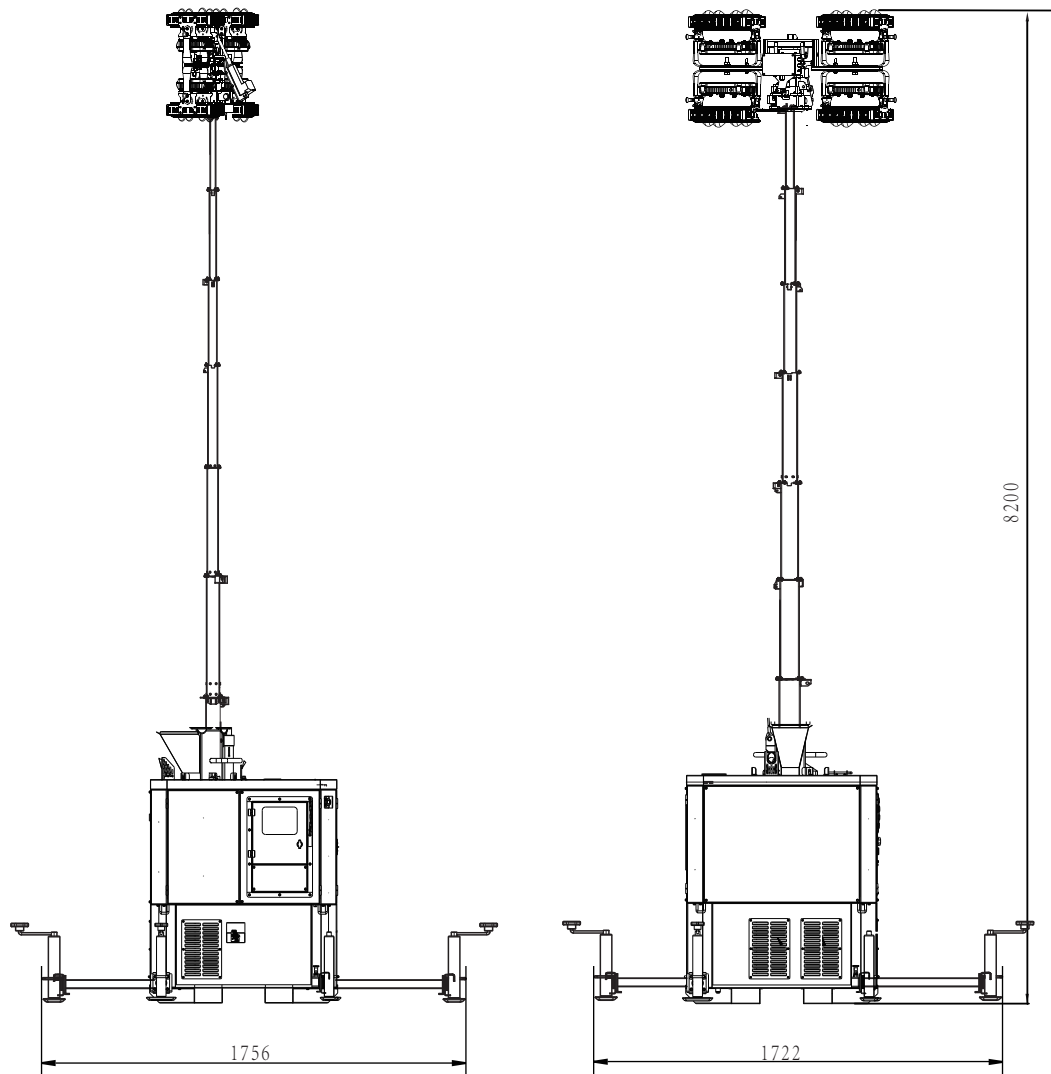
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## 5 Overall Dimension

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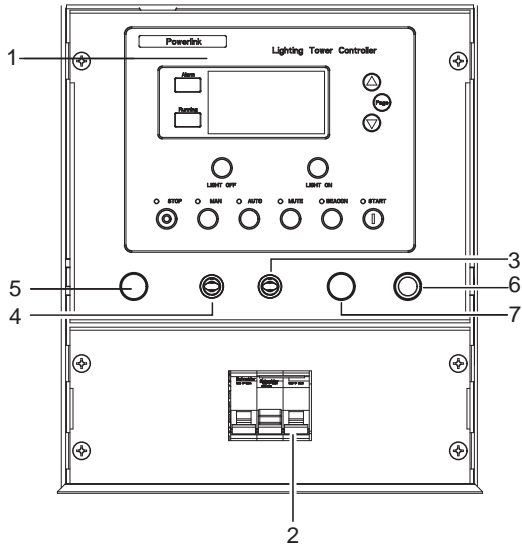
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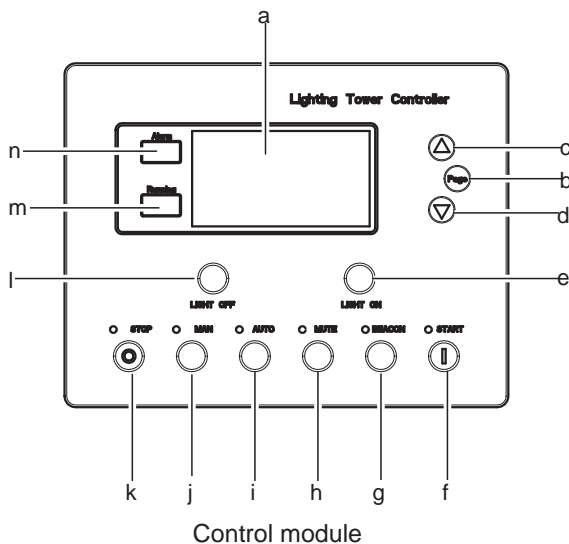
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## 6 Control System



Switch cabinet

Ref.	Description
1	Control module
2	Main circuit breaker
3	Lamp tilting switch
4	Mast up/down switch
5	Confirm button
6	Alertor
7	Balance indicator of light tower



Control module

Ref.	Description
a	Main status display
b	Cyclic selection of the display mode (MEASUREMENT->ADJUSTEMENT)
c	Select the set point, select the screen or increase set point value
d	Select the set point, select the screen or decrease set point value
e	Turn on a light each press in manual mode
f	Start of the engine in maunal mode
g	Open/colse button of Annunciator
h	Deactivates the horn
i	Auto mode
j	Maunal mode
k	Stop of the engine/Alram reset button
l	Turn off a light each press in manual mode
m	Running indicator
n	Alarm indicator

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