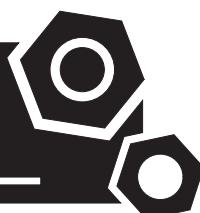


Mobile light tower

FS2000-KDC

SPECIFICATIONS



Mobile Light Tower FS2000-KDC, Tier 4F

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.

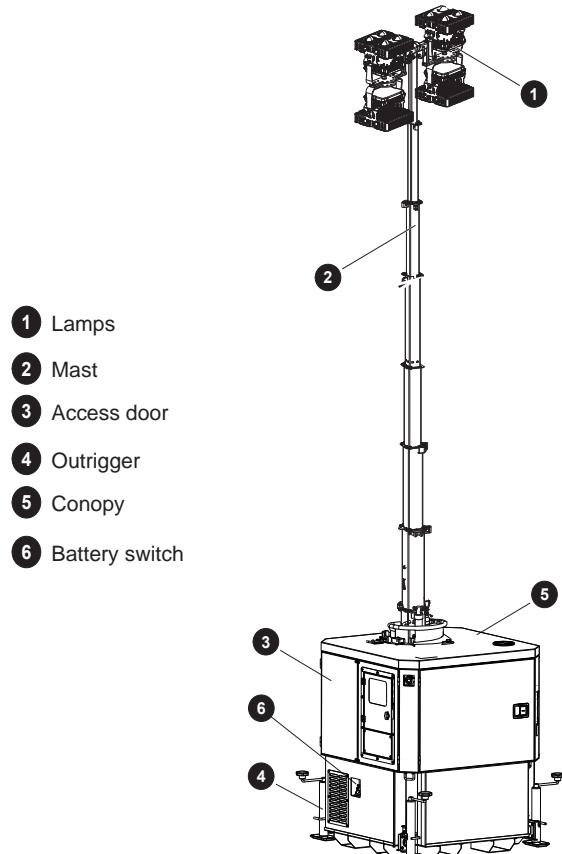
2 General Features

- 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 hydraulic extension and manual rotation
- Hydraulic power unit
- Hydraulic cylinder with explosion-proof valve
- 6x300W 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
- Operation Manual / Specifications

3 Equipment Specification

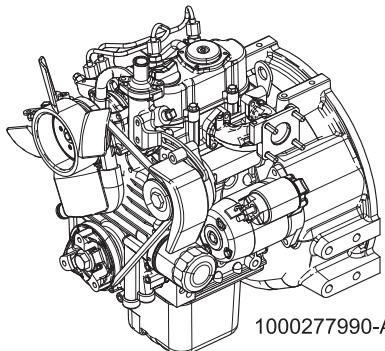
Model.....	FS2000-KDC
Light type.....	LED
Luminous flux(Max)lm.....	202600
Light intensity(Max)cd.....	213125
Tank capacity.....	200L
Wet weigh	1080 kg
Dry weigh	900 kg
Total lighting wattage	6x300W
Dimensions (Fully retracted).....	1167x1133x2390mm
Dimensions (Fully extended)	2093x2093x8000mm
Tilting 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	6xLamps
Fuel Consumption(L/h)	0.68



1000026597-AP1-D2

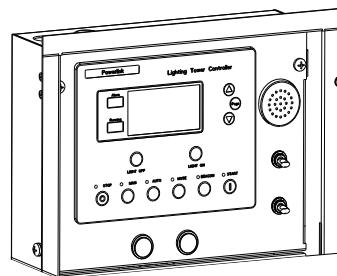
Engine



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

PLC-805 Control System

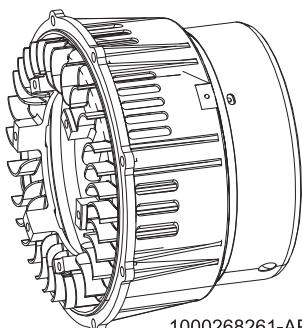


1000271050-AP1-D4

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

Alternator



1000268261-AP1-A1

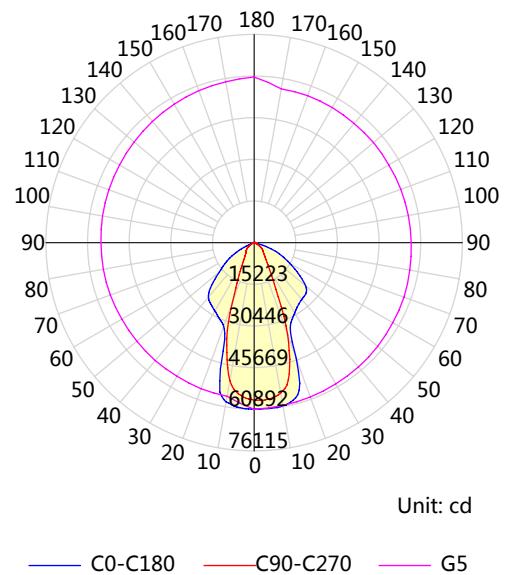
Alternator Manufacturer/Brand POWERLINK

4 Luminaire

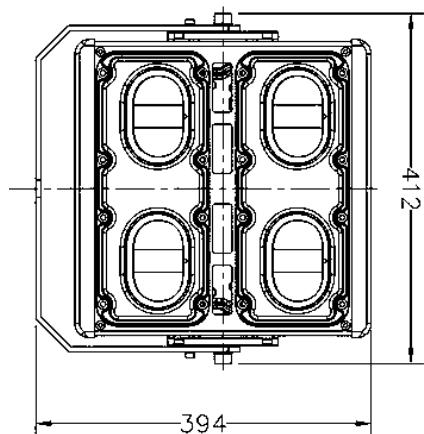
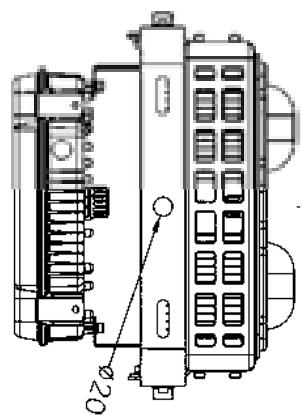
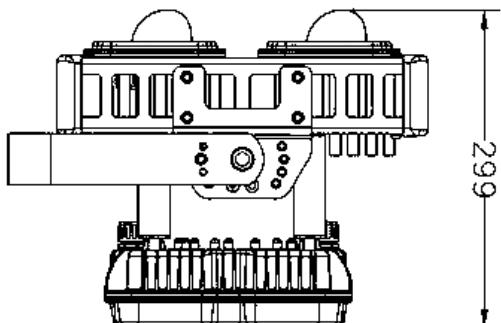
Luminaire Data:

Item	Description
Rated power	300W
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

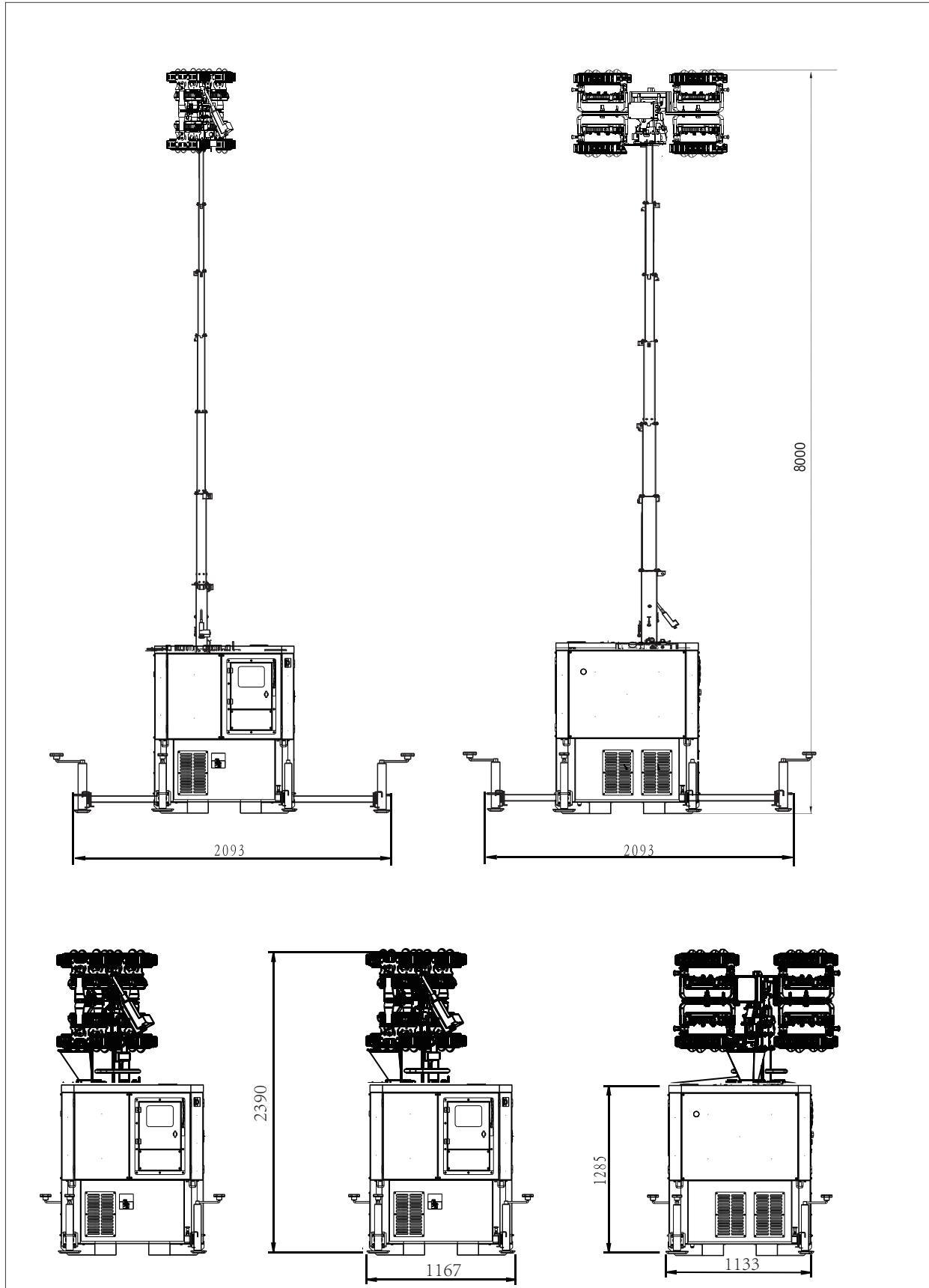
Luminous emittance 1:



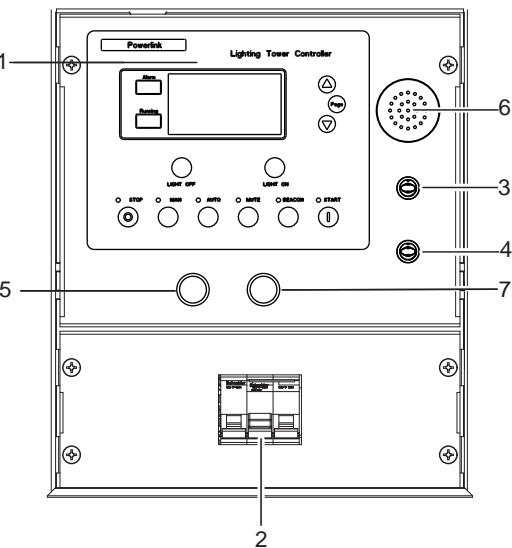
Out-line:



5 Overall Dimension

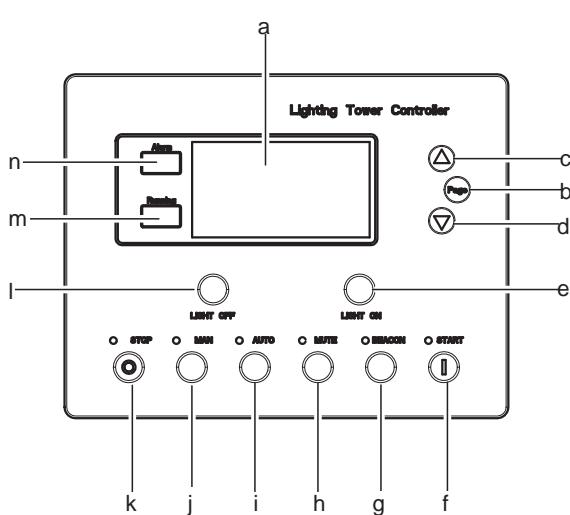


6 Control System



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

Control cabinet



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/close 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

D2-F
02.2019

<http://www.powerlinkworld.com>

*Specification may change without prior notice. For more info.,
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