

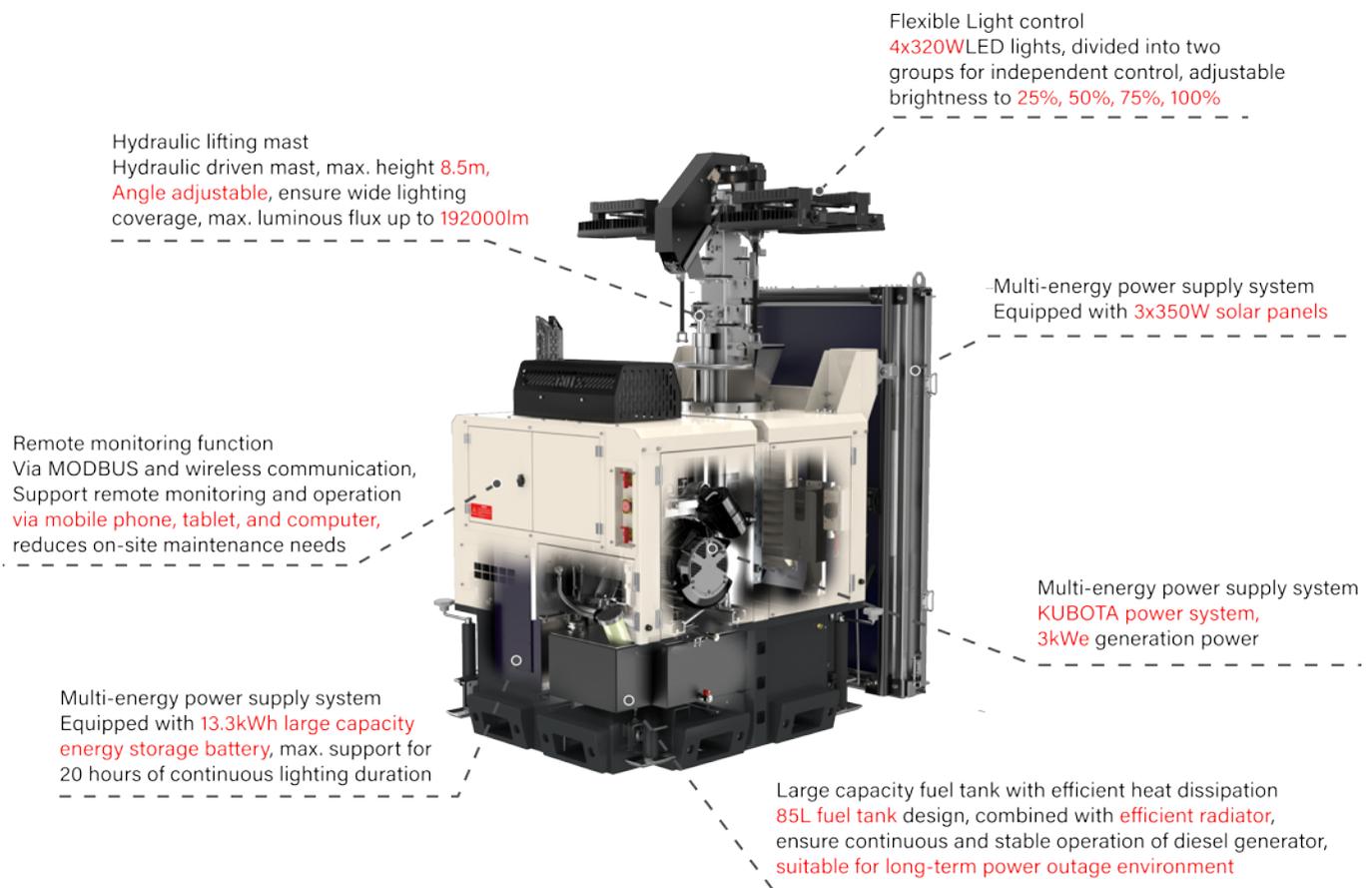
FS2000-HKDC

Hybrid Power Lighting Tower

Energy Storage Battery / Solar Power / Diesel Generator

Product Introduction

FS2000-HKDC is high-efficiency hybrid-powered lighting tower, integrating energy storage batteries, solar power and diesel generator, specifically designed to meet continuous illumination demands in extreme environments. Equipped with 13.3kWh energy storage battery, 1.05kWp solar panels and 3kW DC generator, ensuring a stable and reliable power supply. Equipped with a PLC intelligent control system, support three operation modes: battery-powered mode, generator-powered mode, and hybrid-powered mode. These modes can automatically switch based on predefined logic or be manually selected to optimize energy management. It supports three operation modes (manual, automatic, and timed) with light-sensing auto-switching and multi-stage brightness adjustment.



Dual energy supply

A dual power supply system with PV and diesel power generation, combined with a large-capacity energy storage battery, can provide continuous power supply regardless of sunny or rainy days.



Intelligent control

PLC controller is combined with the photosensitive sensor, and the device can automatically adapt to the change of light, and the bright can be adjusted.



Strong adaptability

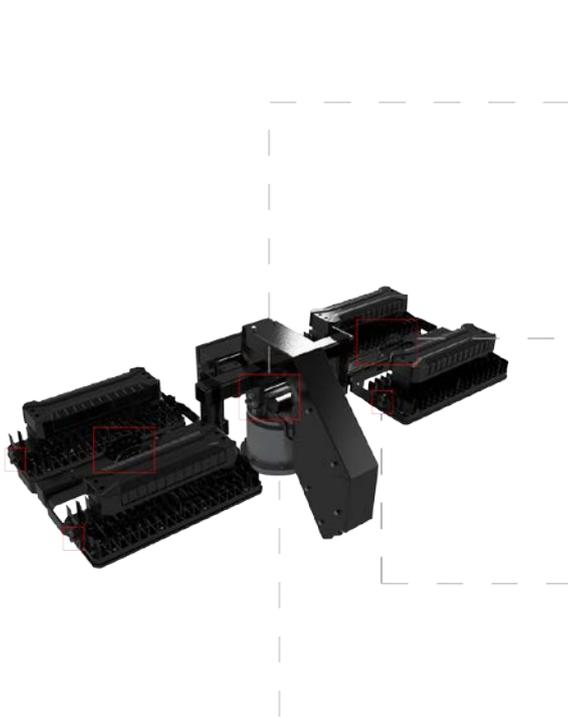
Whether it is outdoor projects, emergency lighting, or event sites, the hybrid power lighting tower can cope with complex environments with strong endurance and flexible lighting control.



Easy to maintain

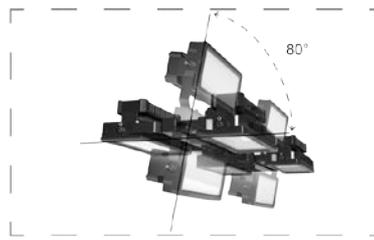
Remote monitoring and diagnosis functions reduce the need and cost of on-site care.

Lamp Angle Adjustment



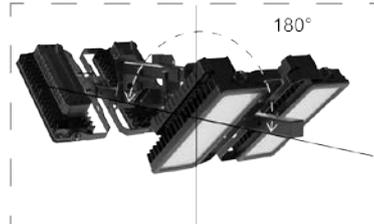
Light fixture rotating angle

The total light fixture can rotate, range 0°~359°



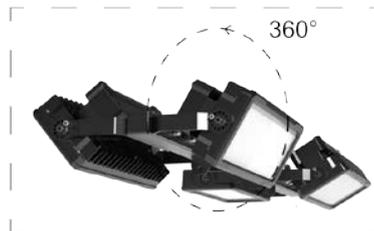
Light fixture tilting angle

The total light fixture can be adjusted the tilting angle, range 0°~80°



Lamp front and rear angle

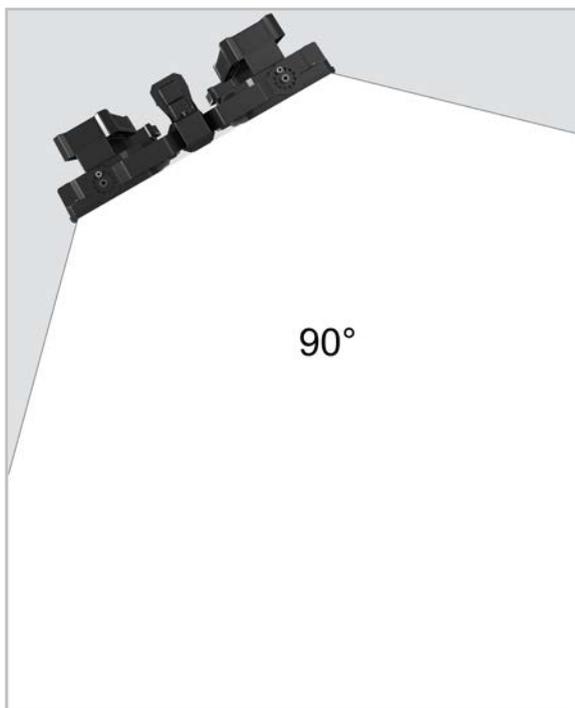
Each lamp can rotate front and back, range 0°~180°



Lamp rotation angle

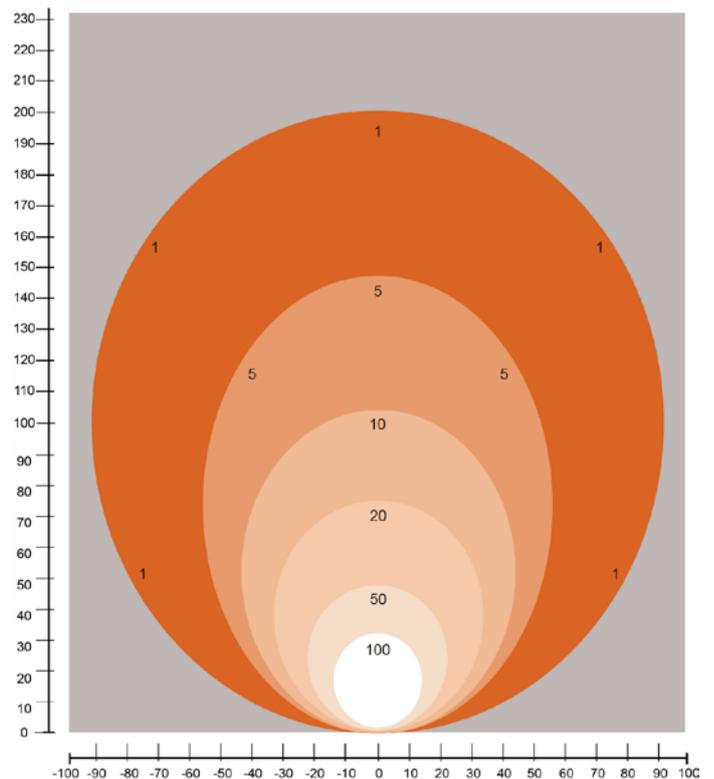
Each lamp can rotate independently 360° to meet any lighting angle

LED Beam Angle: 90°



Lighting Range:

Effective lighting area 7000m²@5 lm



Unit: m

Technical Parameter

Main Parameter

Model	FS2000-HKDC
Light type	LED
Total lighting wattage	4x320W
Luminous flux (Max)	192000 lm
Light intensity	201600 cd
Effective lighting area	7000m2@5 lm
Rated voltage	DC 48V
Mast extended height	8.5m
Light fixture tilting angle	80°
Light fixture rotating angle	359°
Diesel genset rated power	3kWe
Fuel tank capacity	85L
Hydraulic oil tank capacity	5L
Fully extended/retracted time	11/13 s
Noise level @7m (genset power)	58dB(A)
Noise level @7m (battery power)	50dB(A)
Wet weight	1677kg
Dry weight	1587kg
Dimensions (Fully retracted)	1950x1213x2410mm
Dimensions (Fully extended)	2752x3131x8500mm
Transportation dimensions	1950x1213x2410mm
40'Loading (qty)	9

Energy Storage Battery	
Battery type	LFP
Cell capacity	260Ah
Rated power	13.3kWh
Rated voltage	51.2V
Operating temp. range	Charge: 0~60°C Discharge: -20~55°C
Communication method	RS485 / CAN

LED Light	
LED Light	4
Number	320W
Power	1280W



Fuel Consumption		
Load Status	2xLamps	4xLamps
Fuel Consumption(L/h)	0.36	0.62

Parts Parameters

Engine	
Engine brand	KUBOTA
Engine model	Z482-E4B-GB
Rated power	4.3kWm
Number of cylinders	2
Displacement	0.479L
Type of fuel	No.2-D (ASTMD975)
Type of oil	API-CH
Oil capacity	2.5L
Solar Panel	
Total power	1050Wp
Voltage range	60-150V DC
Rated current	25A
Number	3
Dimensions (LxWxH)	1903x1134x30mm
Weight	24.2kg

Standard Configuration

- KUBOTA Engine
- 4x320W LED Light
- DC/DC Module
- Fuel Tank
- Hydraulic Power Unit
- Extended Outriggers
- DC Alternator
- 13.3kWh Energy Storage Battery
- MPPT Module
- 8.5m Mast
- Hydraulic Explosion-proof Valve
- Vibration Damping
- 50°C Radiator
- 3x350W Solar Panels
- PLC Controller
- Start-up Battery
- Steel Structure Chassis
- Emergency Stop Button

Application Scenarios

