

Diesel Lighting Tower - WeLight

WL-4000K

Update 2024.06.04



8 meters

Maximum Height



LED

Start and stop at will



Super Silent

62dB



External fuel refilling

Autonomy 80 hours



360° Manual Rotation



Maximum 80km/h



50 Hz Single Phase



1500 R.P.M



Water-Cooled

Specification

Model	WL-4000K	
Power	kW	2.8
Voltage	V	230
Weight	Kg	726
Fuel tank capacity	L	81
Tank refilling	Type	External
Autonomy	Hours	80
Fuel consumption	L/hrs	1.01
Noise level	Power at 7m	62 dB(A)
Max. Against wind when fully extended	m/s	17.5
Maximum dimensions (in working mode)	(L x W x H) in mm	2965 x 2290 x 8000
Minimum dimensions (in transport mode)	(L x W x H) in mm	4050 x 1280 x 1880
Maximum speed	Km/h	80
40hq container loaded	Unit	20

Engine

Model	Kubota Z482-B-CHN-1	
Type	Vertical, water-cooled, 4-cycle IDI diesel engine	
Number of cylinder	2	
Cylinder Bore	67mm	
Stroke	68mm	
Combustion type	Spherical Type (E-TVCS)	
Total Displacement	0.479L	
Rated speed	1500rpm(50 Hz)	
Rated power (Gross)	4.1 kW(50 Hz)	
Firing Order	1 - 2	
Direction of Rotation	Counter-Clockwise (Viewed from Flywheel Side)	
Injection Pump	PFR	
Fuel Injection Pressure	13.7(140) MPa (kgf/cm ²)	
Fuel Injection Timing	17.0 Before T.D.C	
Compression Ratio	23.5	
Governor Type	Kubota Electronic Control	
Fuel Oil	Diesel Fuel No.2-D	
Starting System	Starter (with glow plug)	
Starter Output	12V - 0.95kW	
Alternator Output	12V - 14A	
Cooling System	Pressurized Radiator, Forced Circulation with water pump	
Lubricating System	Forced Lubricating by Trochoid Pump	
Lub.Oil Capacity	2.5L	
Dimensions (L x W x H)	487.9mm x 421mm x 564mm	
Emission Regulation	Non regulation	

Alternator

CE Certified Model	AK104M
Self exciting	Permanent Magnet
Regulator	Inventor
Rated Output (KVA)	4.0
Frequency (Hz)	50
Rotation Speed (RPM)	1500
Voltage, Series/Parallel (V)	230
Voltage Accuracy	± 2.5%
Phase	Single
No. of Leads	3 leads re-connectable
Environment protection	IP21
Insulation	Class H
Wave form distortion factor	T.H.D<5%
Efficiency	88%
Mounting	SAE5/6.5,SAE4/7.5,Taper
Net Weight(Kg)	35

Inverter

Voltage output(V)	230
Frequency (Hz)	50
Rated output (KVA)	4.0
Environment of use	-30℃~55℃
Heat-dissipating method	Forced air cooling

Radiator

Model	ATB50
Type	Water cooled
Number of pipe	1
Number of pipe layers	38
Size of silicone overflow pipe	8*1200mm
Pressure cap	90KPa±5
Windward area	0.15m ²
Heat radiating area	5.02m ²
Environment of use	50℃
Coolant capacity	2.3L
Weight	2.3KG
Core dimension	388*388*26mm

Chassis

Brand		AL-KO
Type		Mechanical braking
Axle fixing mode		Spring steel plate
Axle load	kg	1000
Chassis dimension	L x W in mm	3020 x 1274
Tyre Size		165R13C
Maximum transport speed	km/h	80

Battery

Type	Maintenance-free battery
Model	6-QW-45
Dimension L*W*H	237mm*128mm*200mm
Capacity	45AH
CCA	350AH

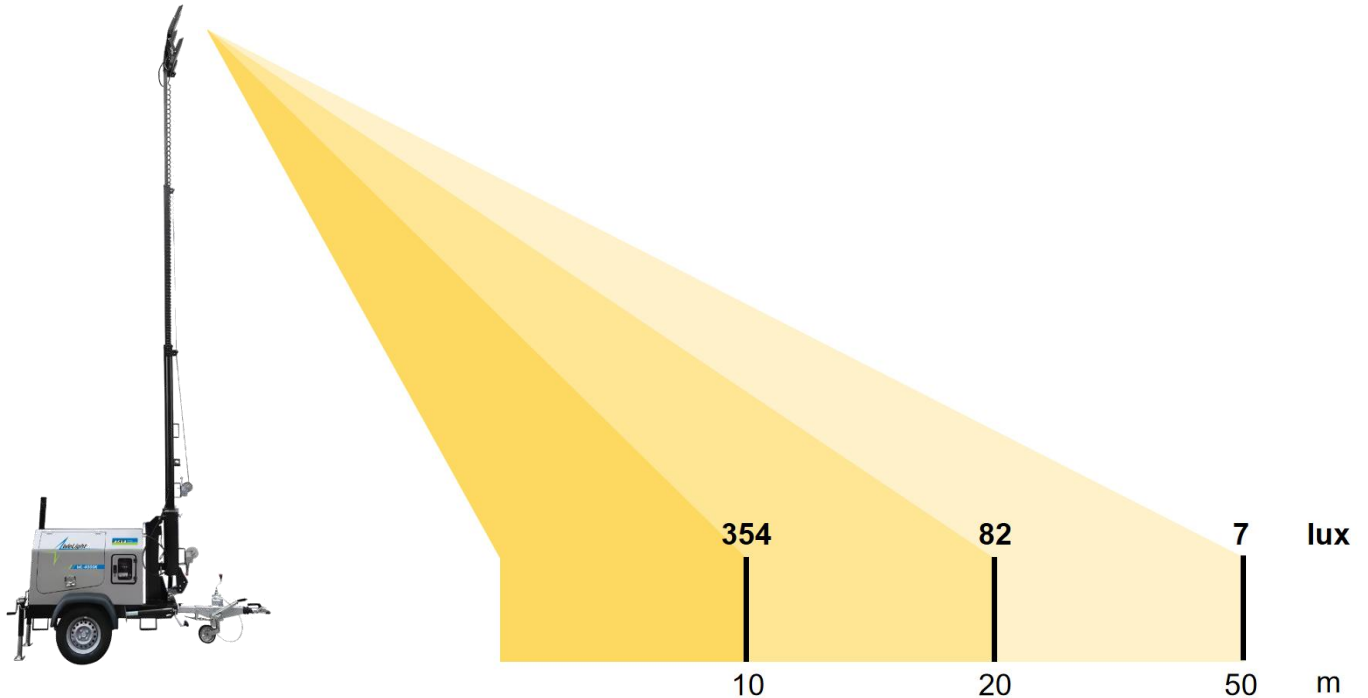
LED Lamp

Power	400W
Rated voltage	AC220-240V / 50Hz
Power factor	>0.90
Color temperature	5000K
Beam angle	110 degree
luminous efficacy of light source	140lm/W
Luminous flux	56000lm
Working temperature	-25℃~+45℃
IP level	IP65
Insulation grade	CLASS I
Impact resistance grade	IK07
Weight	5.26kg
Average lifetime	30000 (hrs)

Control Panel

Model	AKSA4A	
Language	Chinese, English, Spanish, Russian, Turkish, French, Portuguese, and Polish	
Engine data collection	Fuel level(FL)	%
	Fuel Quantity Left L	(unit)
	Speed(RPM)	r/min (RPM)
	Voltage of battery	V
	Voltage of charger	V
	Hour count accumulation	Hours
	Start times accumulation	Hours
Alternator data collection	3-phase voltage	
	Current	
	Power parameter	
	Frequency of generator or mains.	
Protection	automatic start/stop of the genset, ATS (Auto Transfer Switch) control with perfect fault indication and protection function.	
Other function	With ETS (energize to stop), idle control, pre-heat control and raise/drop speed control functions, which are all relay outputs.	
	Emergency start function enabled.	
	Flywheel tooth number automatic recognition function enabled.	
	With maintenance function. Types (date or running time) can be optional and actions (never, warning, or shutdown) can be set when maintenance time out.	
IP level	IP65: rubber seal installed between the controller enclosure and panel fascia.	
Main engine alarms	Low fuel level	
	Low battery voltage	
	Unexpected shutdown	
	Stop failure	
	Emergency stop	
Main alternator alarms	Over-voltage, under-voltage	
	Over-frequency, under-frequency	
	Over-current	
	Overload	
	Emergency stop	

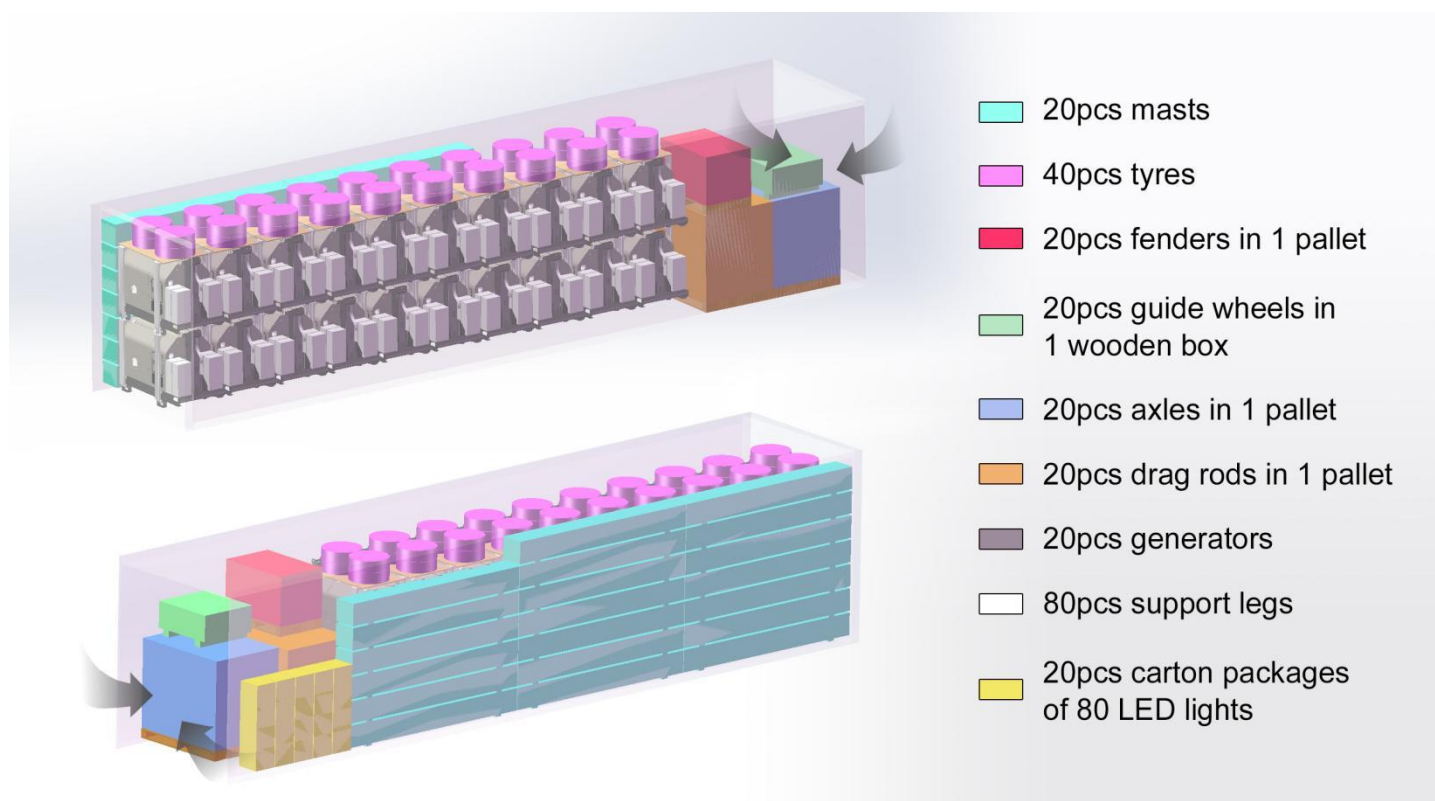
Light Range



Features

- Maximum 8 meters
- 360° manual
- Super silent (62dB at 7m)
- Maximum speed 80km/h
- Single Phase
- 50 Hz Frequency
- 1500 R.P.M
- Water-cooled system
- LED light (available to start and stop at any time)
- Diesel fuel
- Emergency stop
- External fuel refilling
- 4 stabilizers, two of which are extensible to ensure stability
- Bubble level located at the top of genset
- Huge space for maintenance and control
- Extensible and tilting mast
- Draw bar with ball coupling
- Includes lifting hooks and bracket holders
- Cabinet with electrophoresis and powder coating process

Container Plan



Container Type	40 HQ
Cargo Volume	58.08 m ³
Percentage of Volume	76.29%
Cargo Weight	15700kg

Package List		
Name	Dimension L x W x H in mm	QTY
Mast	3200 x 370 x 365	20
2 generators with 4 tyres and 8 support legs	1720 x 920 x 2582	10
Fender	1200 x 800 x 900	1
Guide wheels	1000 x 900 x 500	1
Axle	1600 x 1200 x1500	1
Drag rod	1800 x 1200 x1500	1
LED lights	355 x 365 x320	20
Total		54