

Mobile Light Tower

Diesel Engines
Powered by Kubota



SLT3500M-EL

Includes

- Kubota engine Z482-B-CHN-1
- Close coupled to PowerLink alternator
- Microprocessor control module PLC-800
- Main circuit breaker
- Mechanical governor
- Powder coated canopy (IP54)
- 50°C radiator
- 7.5M high hydraulic lifting mast
- Lockable battery isolator switch
- Emergency stop switch
- Hydraulic power unit
- 1x12V/38AH sealed for life maintenance free battery
- 4x300W metal LED lamps
- Vibration isolators
- Fuel tank (29 running hours under full load)
- Operation Manual / Specifications



ISO8528, AS3000, AS3010

STAGE III CERTIFIED
Common Rail Fuel System



Features

Ultra-Low Noise



Super lower sound attenuation levels without compromising performance

Long Time Running



Fully-banded long range fuel tanks are available

Wide Application



It can be used in severe working environment, -5~50°C

Low Emissions



Tier 4 final, meeting the emission standards of EU and USA diesel generator sets

Convenient Operation



Easy to use controls and maintenance

Tough and Robust



Tough but light-weight steel canopy enclosure

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Main Specification

Environmental operating conditions

- Installation place: outdoor
- Ambient temperature: -5°C to 50°C (the coolant heater is needed when the temperature is below 5°C)
- Humidity: Less than 80%
- Altitude: Less than one thousand (1000) meters above sea level.

Performance guarantee

- Product design, manufacturing and performance integrity verified by standards
- Generator set passed transient response test according to ISO8528-5
- Both engine and alternator are prototype and factory tested

Service support

- Provide global product service support

Factory inspection

- Protection devices working test
- Starting ability in normal temperature
- 50% rated power load moment capability
- Voltage deviation and speed variation: 0, 25%, 50%, 75%, 100%, 110%





Specifications

Main Technical Data

Model	
Light type	
Luminous flux (Max)	lm
Light intensity (Max)	cd
Maximun towing speed	km/h
Total lighting wattage	W
Tire size	
Dimensions (Fully retracted)	mm
Dimensions (Fully extended)	mm
Rated output	KW
Tank capacity	L
Dimensions	mm
Dry weight	kg
Noise Level	dBA@7m
Load	
Fuel consumption	L/h

SLT3500M-EL	
LED	
167968	
171565	
80	
4x300	
175/R13LT*2	
1925×1449×2430	
3036×2700×7000	
2.8	
50	
2508 x 1081 x 1709	
1032	
63.0	
2 x lamps	4x lamps
0.48	0.76

Engine

Manufacturer	KUBOTA
Model	Z482-E4B
Cylinders and arrangement	
Bore: mm	2L
Stroke: mm	67
Displacement: L	68
Compression ratio	0.479
Rotate speed: RPM	23.5
Battery Voltage	1500
Prime power: kWm	4.6
Fan	pusher

Rotate speed governor	Electronic Governor
Type of injection	Direct
Intake system	Natural aspirated
Intake resistance: kPa	≤2.45
Back power: kPa	≤9.33
Oil capacity: L	2.5
Cooling System	Water cooled
Battery voltage: V	24
Dimensions: mm	N/A
Dry weight: kg	80

Alternator

Manufacturer	PowerLink
	PL0BS
Exciter	SELF EXCITED
AVR model	SX460AH
Windings	100% copper
Winding pitch	2/3
Winding Leads	4

Insulation class	H
Temperature rising class	H
Drip proof	IP23
Overspeed: RPM	2250
Voltage regulation	±2.5%
Telephone harmonic factor THF	<2%
Telephone interference factor TIF	<50



Configuration

Control System

(Manufacturer: PowerLink | Model: PLC-800)

General Functions

- Allow the operator to start and stop the engine/Light tower
- Monitors the engine and display of multiple parameters
- Indicating the operational status and fault conditions
- Automatically shutting down the engine and giving a true first up fault condition of an engine failure
- The LCD display indicates the fault
- CAN and Modbus communication
- Provide complete control solutions

Standard Control Function

- | | |
|------------------------------------|----------------|
| Low oil pressure | Overload |
| Manual Engine Control Module Start | Overcurrent |
| High Engine Temperature | Overvoltage |
| Auxiliary Shutdown | Undervoltage |
| Overspeed Protection | Over frequency |
| | Underfrequency |



Power Class Definition

- The data of specifications is based on the following standard environmental conditions test
 - Ambient temperature 25°C
 - Altitude 100m
 - Relative temperature 30%
- Dimensions, weight and other parameters are for reference only, please refer to the final design drawing.