

OLIKARA LIGHTING TOWERS PVT LTD



PORTABLE LIGHT TOWER

PRODUCT SPECIFICATION SHEET

UK/EU spec

Updated Jan/2026

LIGHT TOWER DETAILED SPECIFICATIONS (QPMH)

SPEC	DETAILS
DC SYSTEM	
ENGINE MANUFACTURER	Mitsubishi L3E, Stage V certified
ENGINE CYLINDERS	2 cylinder 4 stroke, water cooled
ENGINE SAFETY #1	Low oil pressure engine shutdown
ENGINE SAFETY #2	High coolant temperature engine shutdown
ENGINE SAFETY #3	Low fuel engine shutdown to prevent air lock during restart
ENGINE SAFETY #4	Over cranking protection
ENGINE SAFETY #5	Overspeed of engine will shutdown engine preventing damage.
ENGINE SAFETY #6	Underspeed of engine due to any factor will shut engine down
ENGINE SAFETY #7	Added delay timer for loading after engine reaches full speed.
ENGINE BATTERY	45Ah 12V battery
ENGINE BATTERY PROTECTION	Lockable Battery Isolator located outside the canopy on left side of machine
ELECTRICAL SYSTEM DISPLAY	Genset controller; Deepsea 4520; CE certified
GENSET BUNDING	Engine fluid leakage is protected by drip tray that is 110% of all engine fluids (oil + coolant) volume. Drip tray has a drain.
FUEL TANK CAPACITY	60 liters (DIESEL). Steel tank with 110% bunding.
FUEL FILTER SYSTEM	2 inline diesel filters.
FUEL MONITORING	Mechanical fuel gauge with view port
FUEL MONITORING	Fuel sensor with cutoff
AC SYSTEM	
ALTERNATOR MANUFACTURER	NSM (Italy)
ALTERNATOR TYPE & PF	Brushless and capacitor excited; PF of 1 (Unity)
GENSET OUTPUT POWER	5kW (230VAC single phase @ 50Hz)] (CE Certified)
MAIN ELECTRICAL PROTECTION	1 x Schneider RCBO (All CE certified)
SOCKET FOR POWER INPUT	1 x 16 Amp male socket, IP55 rated; 230V; 1PH; 3 pin
COIL WIRE RATING AND SPEC	1 nos of multicore coil wire with TPE and PUR jacket which is UV and wear resistant
ELECTRICAL SAFETY	E-Stop present outside canopy on left side of machine
ELECTRICAL SAFETY	MEN Link provided connecting neutral to earth
ELECTRICAL COMPLIANCE	All wiring meets EU/UK standards and color coding.

SPEC	DETAILS
LED SYSTEM	
LAMP WATTAGE & TYPE	6 nos of high lumen output 200W DC LED. (total LED power = 1200W)
LAMP LUMENS & COVERAGE	186,000 lumens / 4800m2
LAMP PROTECTION	Schneider MCBs on electrical panel. (All CE certified)
LAMP ORIENTATION OPTIONS	Each lamp can be adjusted in any direction in both horizontal and vertical planes.
LAMP ROTATE	Each lamp can be individually rotated when the mast is lowered
HYBRID SYSTEM (LFP)	
BATTERY PACK	1 x battery pack of 48VDC at 200Ah. Total available power = 9.1kW
BATTERY TYPE	LFP, maintenance free batteries,
BATTERY PACK PROTECTION	75A MEGA fuse (CE certified)
POWER SOURCE SELECTOR	Selector switch 3 way; Hybrid/Genset, Grid, Off
BATTERY CHARGING (GENSET)	Battery charger 48V with max 60A charging current with appropriate LFP charging to protect battery. Battery charging time ~ 2.5 hrs from discharge to 80% charge and 3 hrs to 100% charge
BATTERY CHARGING (GRID)	Battery bank can be charged from the grid using input charging socket.
BACKUP TIME ON BATTERY	7hrs for 1200W (6 x 200W) running at full brightness.
MAST SYSTEM	
MAST TYPE & FINISH	Vertical tower with plated tubes for superior rust protection. Outer tube, dual coated with CED and PP powder coating.
LUMINAIRE ARM TILT	Arm can be tilted and locked manually in 3 angles; facing down, 40deg with horizontal and 75 deg with horizontal.
LAMP ARM TILT (OPTIONAL)	Lamp arm tilt with DC actuator controlled from switch on control panel
MAST HYDRAULIC UNIT	Hydraulic mast with DC Bucher 12V, 1.5kW powerpack. 15 sec for extension to full height. (CE certified) Manual override valve available to manually bring down tower.
MAST ROTATE 0 deg to 350 deg	Manual rotation with ability to lock tower.
PULLEY TYPE	All pulleys plated and containing sealed bearings for precision with superior performance and life
MAST EXTENDED HEIGHT	8 meters
CANOPY AND TRAILER	
CANOPY BODY FINISH	All canopy metal parts are powder coated with PP powder that is UV resistant and corrosion resistant

SPEC	DETAILS
VIBRATION PROTECTION	Engine + alternator unit are mounted on vibration pads to ensure low vibration
OUTRIGGERS	4 outriggers with mounting stabilizer jacks
MACHINE SUSPENSION	Leaf suspension; slipper type; 500kg rated ea.
AXLE	Rigid axle with ALKO braked hubs; 5 bolt; 14" pneumatic tires
TOWING OPTION	ALKO towbar with 50mm ball hitch, hand brake and inertial braking
TAIL LIGHT PACKAGE (OPTIONAL)	Tail lights and license plate light with 7 pin round plug available
WARNING ALARMS	Battery charging, Low oil pressure indication, High coolant temperature indication, Fuel empty indicator, overspeed, underspeed, High battery voltage, Low battery voltage, Genset over voltage, Genset under voltage, Load over current.
DIMENSIONS (TRAVEL) LxWxH (meters)	2.5 x 1.44 x 2.4
DIMENSIONS (OPERATION) LxWxH (meters)	2.5 x 2.74 x 8
DRY WEIGHT	1175 Kg

