



 LiFePO4

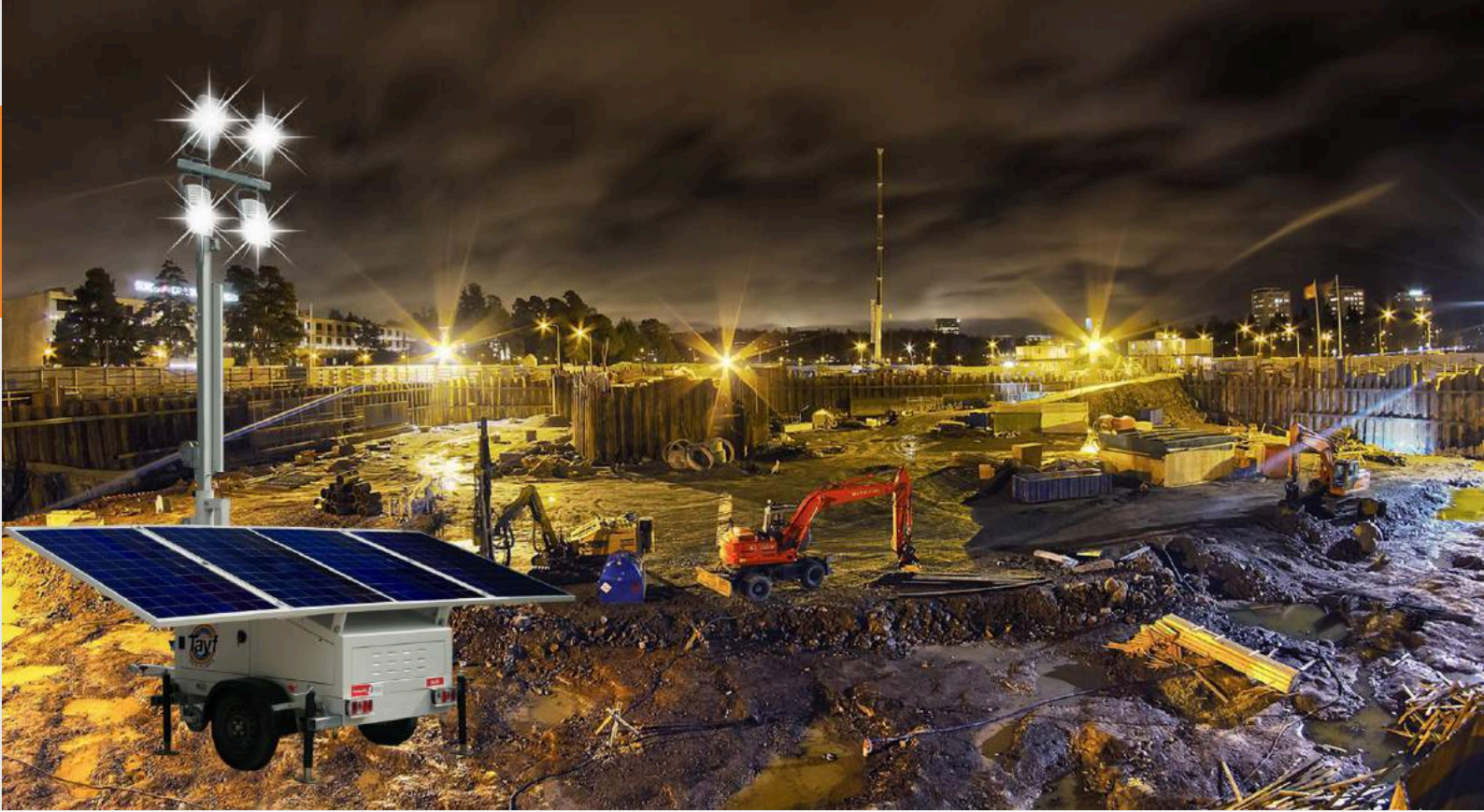
2023

# Solar Mobile Lighting Tower



CE





# Company Profile

**Istanbul Energy Ltd.** provides intelligent, sustainable and reliable alternatives for energy generation, energy transmission distribution and management. As demand for clean power generation to meet the world's growing energy need increases, Istanbul Energy Ltd. has the answers. We provide an unrivalled range of electrical materials and equipment within domestic and export markets. We offer a complete range of switchgear, transformers, cables, energy storage systems, transmission line structures, renewable energy equipment (solar panels, recyclable batteries, wind turbine support posts, etc, and galvanized steel columns - tubular, octagonal or conical).

**Istanbul Energy Ltd.** possesses years of experience in designing energy efficient and renewable energy solutions, also owns, operates and maintains energy infrastructure powered by wind, and solar. We transform analytical insights obtained from

energy data into sustainable solutions. We help our customers to reduce their energy footprint, recover higher energy efficiencies from energy deployment and replace conventional with renewable energy sources.

**Istanbul Energy Ltd.** offers a long-term relationship based on our experience, knowing and understanding the local markets, clients and a technical and commercial requirement which give the company an advantage over competitors. Our skilled Management Team has profound knowledge of the business, which is reached by constant skills development and expertise of all the staff. We pay extreme attention to details and quality, and are committed to giving our clients the highest level of service possible. Our customers' satisfaction is our top priority and the heart of our business.





# Introduction



**LiFePO4**



## ML Series



## MLi Series



Solar Mobile Lighting Tower (TAYF), is suitable for Lighting a wide range of area applications.

Electricity generated from Renewable Sources makes TAYF a silently, clean, odorless, economic and environmentally power solution.

Generated electricity is stored in self-maintained deep cycle stationary batteries. Ready for use on demand 24 hours a day.

Integrating an Inverter is optional on all models. The purpose of this option is for times when you need to power something with AC power. Because of the inverter you will use Solar Mobile Lighting Tower (TAYF) as a generator.

All inverter models has AC In Plug that you easily connect to the grid/generator to charge the battery.

All the models are delivered fully assembled and after rigorous testing.

TAYF is designed for Light Output for continuous night work in a wide range of applications including Mining, Road works, Construction, Hazard illumination, Remote area lighting, Civil works, Agriculture and Events.

# Usage Areas



- » Concert, Festival, Meeting Areas
- » Road, Railway Construction Areas
- » Mines
- » Construction Site
- » Emergency Meeting Areas
- » Agricultural and Events
- » Periodical Projects









## ML Series Data Sheet

		ML-400	ML-400XL	ML-600	ML-600XL	ML-1200
LED Made in Turkiye	Power Watt	4 x 100W	4 x 100W	4 x 150W	4 x 150W	6 x 200W
	LED Efficiency	160-180 lm/W	160-180 lm/W	160-180 lm/W	160-180 lm/W	160-180 lm/W
	Working Life	50.000 hrs	50.000 hrs	50.000 hrs	50.000 hrs	50.000 hrs
	Protection Grade	IP66	IP66	IP66	IP66	IP66
	Working Temperature	-30C to +60C	-30C to +60C	-30C to +60C	-30C to +60C	-30C to +60C
	Warranty	5 Years	5 Years	5 Years	5 Years	5 Years
SOLAR Made in Turkiye	kWh per day	5600	6800	5600	6800	13600
	Numbers of Penels	4	4	4	4	8
	Module watts Each	280	340	280	340	340
	Total Array Watts	1120	1360	1120	1360	2560
	Warranty	25 years	25 years	25 years	25 years	25 years
BATTERY Made in Turkiye  LiFePO4	Bank in Amp-Hours	350 A	400 A	400 A	400 A	800 A
	Bank Voltage	25,6 VDC	25,6 VDC	25,6 VDC	25,6 VDC	25,6 VDC
	Est bank storage	8,1 kWh	9,2 kWh	9,2 kWh	9,2 kWh	18,4 kWh
	Type	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4
	Deep Cycle	5000	5000	5000	5000	5000
	Warranty	2 years	2 years	2 years	2 years	2 years
CHARGE CONTROLLER Made in Turkiye	Max Amps -Hours	60	60	60	60	80
	MPPT	Yes	Yes	Yes	Yes	Yes
	Display	Yes	Yes	Yes	Yes	Yes
	Warranty	2 years	2 years	2 years	2 years	5 years
DATA	PV Input Voltage	Yes	Yes	Yes	Yes	Yes
	PV Input Currency	Yes	Yes	Yes	Yes	Yes
	Battry Voltage	Yes	Yes	Yes	Yes	Yes
	Output Current	Yes	Yes	Yes	Yes	Yes
	Inst. kW	Yes	Yes	Yes	Yes	Yes
	Date Loggings	120 days	120 days	120 days	120 days	120 days
TRAILER Made in Turkiye	Mast	7 mt	7 mt	7 mt	7 mt	9 mt HYDROLIC
	Axle	Single Axle	Single Axle	Single Axle	Single Axle	DOUBLE Axles
	Warranty	2 Years	2 Years	2 Years	2 Years	2 Years






ML-i MAXI



ML-400-i  
ML-600-i



## ML-i Series Data Sheet

		ML-400-i	ML-400-iXL	ML-600-i	ML-600-iXL	ML-i MAXI
LED	Power Watt	4 x 100W	4 x 100W	4 x 150W	4 x 150W	4 x 150W
	LED Efficiency	160-180 lm/W	160-180 lm/W	160-180 lm/W	160-180 lm/W	160-180 lm/W
	Working Life	50.000 hrs	50.000 hrs	50.000 hrs	50.000 hrs	50.000 hrs
	Protection Grade	IP66	IP66	IP66	IP66	IP66
	Working Temperature	-30C to +60C	-30C to +60C	-30C to +60C	-30C to +60C	-30C to +60C
	Warranty	5 Years	5 Years	5 Years	5 Years	5 Years
SOLAR	kWh per day	5600	6800	5600	6800	13600
	Numbers of Panels	4	4	4	4	8
	Module watts Each	280	340	280	340	340
	Total Array Watts	1120	1360	1120	1360	2560
	Warranty	25 years	25 years	25 years	25 years	25 years
BATTERY  LiFePO4	Bank in Amp-Hours	350 A	400 A	400 A	400 A	800 A
	Bank Voltage	25,6 VDC	25,6 VDC	25,6 VDC	25,6 VDC	25,6 VDC
	Est bank storage	8,1 kWh	9,2 kWh	9,2 kWh	9,2 kWh	18,4 kWh
	Type	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4
	Deep Cycle	5000	5000	5000	5000	5000
	Warranty	2 years	2 years	2 years	2 years	2 years
CHARGE CONTROLLER Made in USA	Max Amps -Hours	60	60	60	60	80
	MPPT	Yes	Yes	Yes	Yes	Yes
	Display	Yes	Yes	Yes	Yes	Yes
	Warranty	5 years	5 years	5 years	5 years	5 years
INVERTER Made in USA	Rated Output	3000 W	3000 W	3000 W	3000 W	3000 W
	Surge Power	6000 W	6000 W	6000 W	6000 W	6000 W
	AC Voltage	120 or 230 VAC	120 or 230 VAC	120 or 230 VAC	120 or 230 VAC	120 or 230 VAC
	Warranty	5 years	5 years	5 years	5 years	5 years
DATA	PV Input Voltage	Yes	Yes	Yes	Yes	Yes
	PV Input Currency	Yes	Yes	Yes	Yes	Yes
	Battery Voltage	Yes	Yes	Yes	Yes	Yes
	Output Current	Yes	Yes	Yes	Yes	Yes
	Inst. kW	Yes	Yes	Yes	Yes	Yes
	Date Loggings	120 days	120 days	120 days	120 days	120 days
TRAILER	Mast	7 mt Mechanical	7 mt Mechanical	7 mt Mechanical	7 mt Mechanical	9 mt HYDROLIC
	Axle	Single Axle	Single Axle	Single Axle	Single Axle	DOUBLE Axles
	Warranty	2 Years	2 Years	2 Years	2 Years	2 Years



TAYF has ideal Light output without the initial cost, fuel, unreliability, running noise and maintenance needed on traditional Lighting Towers. Designed for continuous night work in a wide range of applications including Mining, Road works, Construction, Hazard illumination, Remote area lighting, Civil works, Agriculture and Events.







# Solar Mobile Lighting Tower







Generator and Grid seed power if there isn't enough Solar Power for the Loads.



This is the inlet of our Tayf. It makes very easy to connect Grid/Utility to the system.



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