

**Brilliant solutions  
for your projects...**



**Lighting Towers**

**TEKSAN**



## DIESEL LIGHTING TOWERS

Ideal for illuminating construction works, concrete works, road - bridge construction works and outdoor activities where area of work changes frequently, TEKSAN Lighting Towers can be produced at special noise levels according to customer demands.



**PRACTICAL**



**EFFICIENT**



**ECONOMIC**



**MORE COMPACT**



**MORE LIGHTER**



**MORE DURABLE**



OWN A FIRST IN ITS  
**CATEGORY**

Metal halide luminaire

8.5M

6M

8.5M

6M

Led luminaire

8.5M

6M



## HYBRID LIGHTING TOWERS

Teksan Hybrid Lighting Tower, which is an environmentally friendly mobile lighting system;

- Provides 60% less fuel consumption,
- 83% less operation,
- 67% less maintenance time.



## SOLAR LIGHTING TOWERS

Environmentally friendly Solar Lighting Towers, which charge the batteries through daylight with its silent operation and zero emission, do not have any fuel and maintenance costs like generator lighting towers.



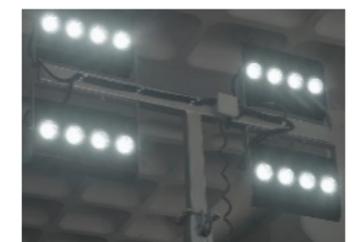
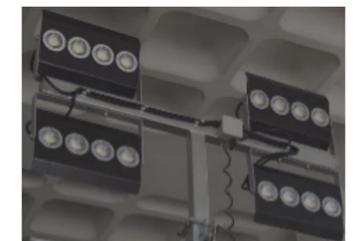
**No Fuel Cost**



**No Maintenance Cost**



**0 Emission**



# Practical, efficient and economic...



## DIESEL LIGHTING TOWERS

### General Features

- Practical, efficient and economic,
- In addition to having an easy general maintenance; repair, service and maintenance of electrical components are also extremely practical,
- Provides longer operating time per fuel tank thanks to its efficiency and excellent fuel economy,
- Thanks to its compact design, it allows more products to be loaded per vehicle in shipments via truck, container.
- There are auxiliary power sockets.



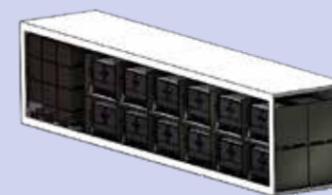
### 50 Hz Lighting Towers

Lighting Tower Model	MANUAL				ELECTRICAL		
	TJ5MS5M-LM-1	TJ10PE5L-LM	TJ14PE5L-LM	TJ22PE5L-LM	TJ10PE5L-LE	TJ14PE5L-LE	TJ22PE5L-LE
Engine Brand	Mitsubishi	Perkins	Perkins	Perkins	Perkins	Perkins	Perkins
Alternator Brand	NSM	Leroy Somer					
Engine Model	L3E-61SD-NP2	403A-11G1	403A-15G1	404A-22G1	403A-11G1	403A-15G1	404A-22G1
Alternator Model	K132B	TAL040B	TAL040B	TAL040F	TAL040B	TAL040D	TAL040F
Generator Power (Standby-kVA)	5	10	14	22	10	14	22
Generator Power (Prime-kVA)	4	9	13	20	9	13	20
Cooling System	Water						
Speed/Frequency	1500 rpm / 50 Hz						
Engine Gross Power (kWm)	7,3	9,5	13,5	20,6	9,5	13,5	20,6
Fuel Consumption (lt/s)	2,2	2,6	3,7	5,3	2,6	3,7	5,3
Number of Phase	1	3	3	3	3	3	3
Power Factor	0,8	0,8	0,8	0,8	0,8	0,8	0,8
Protection Level	IP 23						
Voltage Output (VAC)	230	230/400	230/400	230/400	230/400	230/400	230/400
Led Fixture	Standard						
Metal Halide Fixture	N/A	Opsiyon	Opsiyon	Opsiyon	TBA	TBA	TBA
Fixture Power-Led (kW)	4 x 150W						
Fixture Power-Metal Halide (kW)	N/A	4 x 1000W					
Luminous Flux-Led (lm)	4 x 14.490						
Luminous Flux-Metal Halide (lm)	N/A	4 x 80.000					
LED fixture (avg. 20 lux)	3500m2 @ 6m / 3325m2 @ 8.5m						
Metal Halide fixture (avg.) 20 lux)	7520m2 @ 6m / 7180m2 @ 8.5m						
Tower Height (m)	6	8,5	8,5	8,5	6	6	6
Tower Position Control (Up-Down)	Manual	Manual	Manual	Manual	Electrical	Electrical	Electrical
*Projector Position Control	Manual	Manual	Manual	Manual	Electrical	Electrical	Electrical
Tower Security Control	Manual	Manual	Manual	Manual	Electrical	Electrical	Electrical
Sockets	1x16A (1 Pcs)	3x32A (1 Pcs) 1x16A (2 Pcs)	3x32A (1 Pcs) 1x16A (2 Pcs)	3x32A (1 Pcs) 1x16A (2 Pcs)	3x32A (1 Pcs) 1x16A (2 Pcs)	3x32A (1 Pcs) 1x16A (2 Pcs)	3x32A (1 Pcs) 1x16A (2 Pcs)
Operating Mode Dimensions (WxDxH)	2596x2220x6000	3310x2785x8500	3310x2785x8500	3310x2785x8500	3312x2785x6000	3312x2785x6000	3312x2785x6000
Transport Mode Dimensions (WxDxH)	2301x1417x2540	4780x1500x1925	4780x1500x1925	4780x1500x1925	3312x1738x2640	3312x1738x2640	3312x1738x2640
Weight Led / Metal Halide (kg)	650/ N/A	866/916	956/1006	1016/1066	853/ TBA	943/ TBA	1003/ TBA
Fuel Tank Capacity (Liter)	15	35	35	35	35	35	35

### 60 Hz Lighting Towers

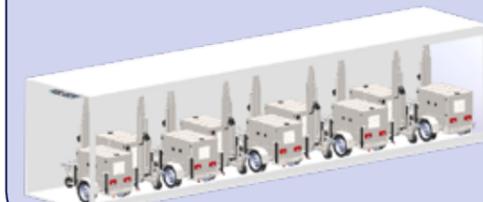
Lighting Tower Model	MANUAL			ELECTRICAL		
	TJ12PE6L-LM	TJ17PE6L-LM	TJ26PE6L-LM	TJ12PE6L-LE	TJ17PE6L-LE	TJ26PE6L-LE
Engine Brand	Perkins	Perkins	Perkins	Perkins	Perkins	Perkins
Alternator Brand	Leroy Somer					
Engine Model	403D-11G	403D-15G	404D-22G	403D-11G	403D-15G	404D-22G
Alternator Model	TAL040B	TAL040D	TAL042A	TAL040B	TAL040D	TAL042A
Generator Power (Standby-kVA)	12	17	26	12	17	26
Generator Power (Prime-kVA)	11	16	24	11	16	24
Cooling System	Water	Water	Water	Water	Water	Water
Speed/Frequency	1800 rpm / 60 Hz					
Engine Gross Power (kWm)	11,8	16,2	24,3	11,8	16,2	24,3
Fuel Consumption (lt/s)	3,2	4,3	6,2	3,2	4,3	6,2
Number of Phase	3	3	3	3	3	3
Power Factor	0,8	0,8	0,8	0,8	0,8	0,8
Protection Level	IP 23					
Voltage Output (VAC)	240/415	240/415	240/415	240/415	240/415	240/415
Led Fixture	Standard	Standard	Standard	Standard	Standard	Standard
Metal Halide Fixture	Option	Option	Option	TBA	TBA	TBA
Fixture Power-Led (kW)	4 x 150W					
Fixture Power-Metal Halide (kW)	4 x 1000W					
Luminous Flux-Led (lm)	4 x 14.490					
Luminous Flux-Metal Halide (lm)	4 x 80.000					
LED fixture (avg. 20 lux)	3500m2 @ 6m / 3325m2 @ 8.5m					
Metal Halide fixture (avg.) 20 lux)	7520m2 @ 6m / 7180m2 @ 8.5m					
Tower Height (m)	8,5	8,5	8,5	6	6	6
Tower Position Control (Up-Down)	Manual	Manual	Manual	Electrical	Electrical	Electrical
*Projector Position Control	Manual	Manual	Manual	Electrical	Electrical	Electrical
Tower Security Control	Manual	Manual	Manual	Electrical	Electrical	Electrical
Sockets	3x32A (1 Pcs) 1x16A (2 Pcs)					
Operating Mode Dimensions (WxDxH)	3310x2785x8500	3310x2785x8500	3310x2785x8500	3312x2785x6000	3312x2785x6000	3312x2785x6000
Transport Mode Dimensions (WxDxH)	4780x1500x1925	4780x1500x1925	4780x1500x1925	3312x1738x2640	3312x1738x2640	3312x1738x2640
Weight Led / Metal Halide (kg)	866/916	956/1006	1048/1098	853/TBA	943/TBA	1018/TBA
Fuel Tank Capacity (Liter)	35	35	35	35	35	35

#### 40' HC Container Unmounted



24 x Lighting Tower

#### 40' HC Container Mounted

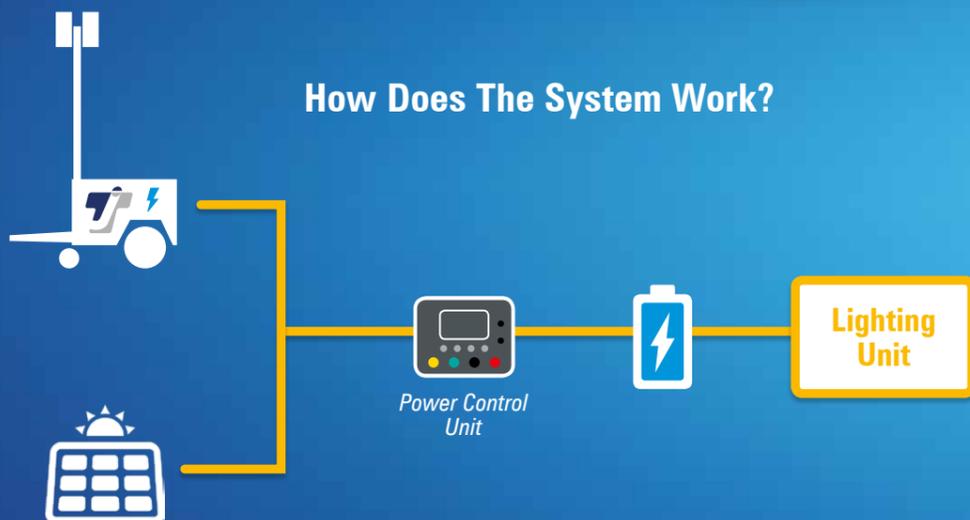


9 x Lighting Tower

\*The relevant values are valid for 150W LED and 1000W Metal halide fixtures.

# HYBRID LIGHTING TOWERS

Teksan Hybrid Lighting Towers are environmentally friendly systems that provide significant savings in your projects that require mobility.



## HYBRID LIGHTING TOWERS



### Teksan Hybrid Lighting Tower

is a cost effective and environmentally friendly mobile lighting system. Thanks to its "Hybrid Power Technology", the operating time of the engine is 83% lower than the standard diesel lighting towers and its fuel consumption is 60% lower. With the new generation technology of Teksan Hybrid Lighting Tower, the time required for general maintenance has been reduced by 67%. However, it is a product with lower CO<sub>2</sub> emission and noise emission values. Therefore, Teksan Hybrid Lighting Tower, which provides significant savings to your company in operation and fuel costs with its efficiency, is also an environmentally friendly solution.



### Hybrid Lighting Towers

Technical Specifications		TEKSAN
Lighting Technical Information	Lighting Type	LED
	Number of Lamps	4 x 150W
	Lighting Power	96000
Tower Technical Information	Tower Height	9m
	Tower Position Control (Up-Down)	Mechanical
	Projector Position Control (Right-Left Rotation)	Mechanical
Generator Set Technical Information	Motor	Perkins 403A-11G
	Alternator	Sincro FB 4-48/200
	Speed	1500 rpm
	Voltage Output	48VDC
	Generator Set Output Power	7,2 kW
	Fuel Tank Capacity	35 Litres
Battery Technical Information	Sound Value	Same as ambient
	Battery Type	LiFePO4
	Capacity	100Ah
	Runtime	6,4 h
	Recharge Time	3,2 h
Trailer Technical Information	Battery Life	7,6 years
	Operating Mode Dimensions (WxDxH)	3523,5x1500x9000
	Transport Mode Dimensions (WxDxH)	4865x1500x1830
Performance Values	Weight (with empty fuel tank)	1200 kg
	Maximum Output Power (AC)	3 kW
	Fuel Consumption Saving Rate *	60%
	Daily Fuel Consumption	4,9 Litres
	Average Refueling Period	7 days
	Engine Run Time Reduction Rate *	83%
	Daily Average Engine Run Time	4 h
	Average Maintenance Period	125 days
	Generator Set Maintenance Time Reduction Rate*	67%
	Lighting Areas	LED fixture (avg. 20 lux)

## SOLAR LIGHTING TOWER

Teksan Solar Lighting Tower, which takes its energy from the Sun, offers an environmentally friendly solution with the energy savings it provides. It can illuminate an area of 3,500 square meters for 8 hours by reflecting the energy with LED fixtures it receives from solar panels and stores in its batteries. Although the Solar Lighting Tower operates with full performance between March and September when the sunlight is intense, it is sufficient to illuminate the work areas without the need for any energy source almost all year\*. With the solar panels used, an average of 84% of the total electricity needed annually can be met.

*\*Related parameters may vary according to locations, please get information.*

**Teksan Solar Lighting Tower offers practical use, saves fuel and is environmentally friendly.**

- The 1010Wp solar panel has a 48VDC 150Ah battery pack.
- Led fixtures with 150W, 5000K and L60 lenses operating with 48VDC supply voltage are used.
- 4x150W Led fixtures can illuminate an area of 3 thousand 500 square meters with an average luminous flux of 20 lux.

Table 1: Solar lighting tower system specifications.

Key Features	
Lighting Period	8 saat
Projector Power	150 W
Number of Projectors	4
System Voltage	48 VDC
Lighting Load (daily)	3,6 kWh
Lighting Area (avg. 20 lux)	3500 m2
Number of PV Panels	4
Rated Panel Power	2x320Wp + 2x185Wp
Total PV Panel Power	1010Wp
Battery Specifications	
Technology	VRLA Lead Carbon
Battery Capacity (C20)	150 Ah
Rated Voltage	48
Maximum Charge Current	30A
DoD	%80
Discharge Time	8 h
Daily Cycle	1,2
Annual Cycle	438
Expected Battery Life	4,5 years

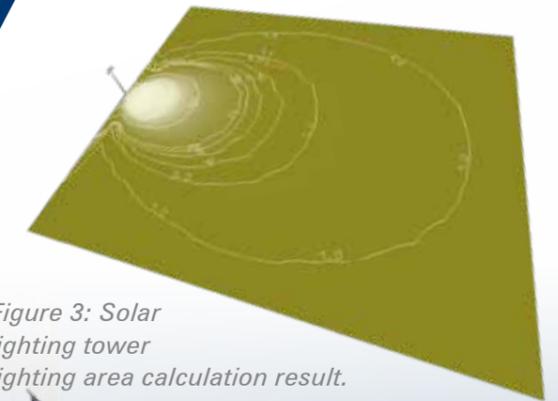
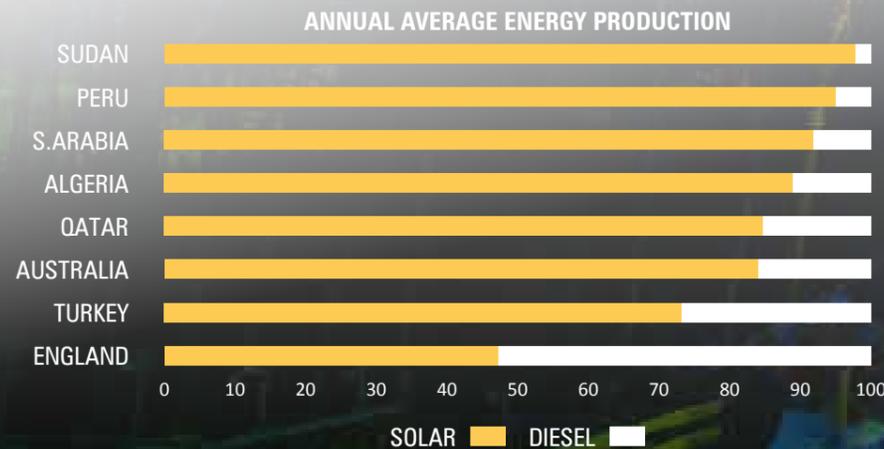


Figure 3: Solar lighting tower lighting area calculation result.



No Fuel Cost



No Maintenance Cost



0 Emission





Worksites



Events



Mining



Disaster search and rescue



WHENEVER YOU NEED  
POWER, WE ARE  
ALWAYS WITH YOU...  
**SINCE 1994!**

Since 1994, Teksan has been delivering high quality tailormade solutions that are designed accordingly to your requirements with strong after-sales technical support and maintenance services anytime and anywhere you need uninterrupted power supply. When your company is moving further ahead rapidly on the road to success, you always feel our continuous support as your reliable power solutions partner.  
*Because Teksan is a member of your family...*



 **TEKSAN**



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COMPANY*



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