

Bright solutions **rising**  
over your projects...



## Lighting Towers

**TEKSAN**

*25<sup>th</sup> year*



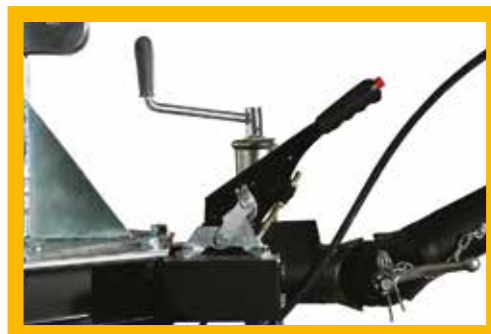
# Practical, efficient and affordable...

## LIGHTING TOWERS

Lighting Towers, which are ideal for enlightening of construction sites, concrete works, road-bridge production works and outdoor organizations that are in open area and their usage places replace frequently, can also be produced with private sound level in accordance with customer requests.

### General Specifications

- Excellent fuel economy providing longer hours of run time per fuel tank.
- Maintenance-friendly electrical assemblies make troubleshooting, service and repair user friendly.
- Compact design allows up increased number of units per truck/container load.
- Auxiliary power sockets.



# TECHNICAL SPECIFICATIONS

## 50 Hz Lighting Towers

Mast Type	Electrical			NEW	Mechanical		
GENSET MODEL	TJ10PE5A-LE	TJ14PE5A-LE	TJ22PE5A-LE	TJ5MSS5M-LM	TJ10PE5A-LM	TJ14PE5A-LM	TJ22PE5A-LM
ENGINE BRAND	Perkins	Perkins	Perkins	Mitsubishi	Perkins	Perkins	Perkins
ALTERNATOR BRAND	Marelli	Marelli	Marelli	NSM	Marelli	Marelli	Marelli
ENGINE MODEL	403A-11G	403A-15G	404A-22G	MVL3E-61SD-NP2	403A-11G	403A-15G	404A-22G
ALTERNATOR MODEL	MJB160XA4	MJB160XA4	MJB160SB4	K132B	MJB160XA4	MJB160XA4	MJB160SB4
Cooling System	Water	Water	Water	Water	Water	Water	Water
Speed / Frequency	1500 rpm / 50Hz	1500 rpm / 50Hz	1500 rpm / 50Hz	1500 rpm / 50Hz	1500 rpm / 50Hz	1500 rpm / 50Hz	1500 rpm / 50Hz
Engine Gross Power (kWm)	9,5	13,5	20,6	7,4	9,5	13,5	20,6
Fuel Consumption (lt/h)	2,6 (100% load)	3,7 (100% load)	5,4 (100% load)	2,1	2,6 (100% load)	3,7 (100% load)	5,4 (100% load)
Number of Phases	3	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	IP 23	IP 23	IP 23	IP 23	IP 23	IP 23
Voltage Output (VAC)	230/400	230/400	230/400	120/240	230/400	230/400	230/400
Lighting Type	Projector/LED	Projector/LED	Projector/LED	LED	Projector/LED	Projector/LED	Projector/LED
Lighting Power	4 x 80.000 Lm (Projector) 4 x 14490 Lm (LED)	4 x 80.000 Lm (Projector) 4 x 14490 Lm (LED)	4 x 80.000 Lm (Projector) 4 x 14490 Lm (LED)	4 x 150W	4 x 80.000 Lm (Projector) 4 x 14490 Lm (LED)	4 x 80.000 Lm (Projector) 4 x 14490 Lm (LED)	4 x 80.000 Lm (Projector) 4 x 14490 Lm (LED)
Mast Height (m)	6	6	6	6	8.5	8.5	8.5
Mast Position Controls (Up-Down)	Electrical	Electrical	Electrical	Mechanical	Mechanical	Mechanical	Mechanical
Projector Position Controls (Left-Right)	Electrical	Electrical	Electrical	Mechanical	Mechanical	Mechanical	Mechanical
Safety Mast Control	Electrical	Electrical	Electrical	Mechanical	Mechanical	Mechanical	Mechanical
Plugs	1 pc 3x16A 2 pcs 1x16A	1 pc 3x16A 2 pcs 1x16A	1 pc 3x16A 2 pcs 1x16A	2 pc 1x16A	1 pc 3x16A 2 pcs 1x16A	1 pc 3x16A 2 pcs 1x16A	1 pc 3x16A 2 pcs 1x16A
Working Mode Dimensions-mm	3312x2785x6000	3312x2785x6000	3312x2785x6000	2600x2220x6000	3310x2785x8500	3310x2785x8500	3310x2785x8500
Transportation Mode Dimensions-mm	3312x1738x2640	3312x1738x2640	3312x1738x2640	2300x1400x1200	4780x1500x1925	4780x1500x1925	4780x1500x1925
Weight (Kg)	1135	1135	1200	1055	1105	1105	1170
Fuel Tank Capacity (lt)	35	35	35	35	35	35	35

## 60 Hz Lighting Towers

Mast Type	Electrical			Mechanical		
GENSET MODEL	TJ12PE6A-LE	TJ17PE6A-LE	TJ26PE6A-LE	TJ12PE6A-LM	TJ17PE6A-LM	TJ26PE6A-LM
ENGINE BRAND	Perkins	Perkins	Perkins	Perkins	Perkins	Perkins
ALTERNATOR BRAND	Marelli	Marelli	Marelli	Marelli	Marelli	Marelli
ENGINE MODEL	403D-11G	403A-15G	404D-22G	403D-11G	403A-15G	404D-22G
ALTERNATOR MODEL	MJB160XA4	MJB160SA4	MJB160SC4	MJB160XA4	MJB160SA4	MJB160SC4
Cooling System	Water	Water	Water	Water	Water	Water
Speed / Frequency	1800 rpm / 60Hz	1800 rpm / 60Hz	1800 rpm / 60Hz	1800 rpm / 60Hz	1800 rpm / 60Hz	1800 rpm / 60Hz
Engine Gross Power (kWm)	11,8	16,2	24,3	11,8	16,2	24,3
Fuel Consumption (lt/h)	3 (100% load)	4,3 (100% load)	6,2 (100% load)	3 (100% load)	4,3 (100% load)	6,2 (100% load)
Number of Phases	3	3	3	3	3	3
Power Factor	0.8	0.8	0.8	0.8	0.8	0.8
Protection Level	IP 23	IP 23	IP 23	IP 23	IP 23	IP 23
Voltage Output (VAC)	277/480	277/480	277/480	277/480	277/480	277/480
Lighting Type	Projector/LED	Projector/LED	Projector/LED	Projector/LED	Projector/LED	Projector/LED
Lighting Power	4 x 80.000 Lm (Projector) 4 x 14490 Lm (LED)	4 x 80.000 Lm (Projector) 4 x 14490 Lm (LED)	4 x 80.000 Lm (Projector) 4 x 14490 Lm (LED)	4 x 80.000 Lm (Projector) 4 x 14490 Lm (LED)	4 x 80.000 Lm (Projector) 4 x 14490 Lm (LED)	4 x 80.000 Lm (Projector) 4 x 14490 Lm (LED)
Mast Height (m)	6	6	6	8.5	8.5	8.5
Mast Position Controls (Up-Down)	Electrical	Electrical	Electrical	Mechanical	Mechanical	Mechanical
Projector Position Controls (Left-Right)	Electrical	Electrical	Electrical	Mechanical	Mechanical	Mechanical
Safety Mast Control	Electrical	Electrical	Electrical	Mechanical	Mechanical	Mechanical
Plugs	1 pc 3X16A 2 pcs 1X16A	1 pc 3X16A 2 pcs 1X16A	1 pc 3X16A 2 pcs 1X16A	1 pc 3X16A 2 pcs 1X16A	1 pc 3X16A 2 pcs 1X16A	1 pc 3X16A 2 pcs 1X16A
Working Mode Dimensions-mm	3312x2785x6000	3312x2785x6000	3312x2785x6000	3310x2785x8500	3310x2785x8500	3310x2785x8500
Transportation Mode Dimensions-mm	3312x1738x2640	3312x1738x2640	3312x1738x2640	4780x1500x1925	4780x1500x1925	4780x1500x1925
Weight (Kg)	1135	1145	1245	1105	1115	1215
Fuel Tank Capacity (lt)	35	35	35	35	35	35

■ Technical information and values are according to ISO8528, ISO3046, NEMA MG-1.22, IEC600341, BS4999-5000, VDE0530 standards.

■ Producing with ISO9001, ISO14001, OHSAS18001, TSE, CE standards.

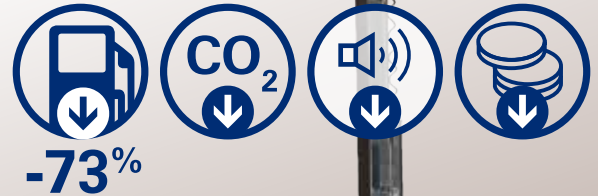
■ All information given in this leaflet is intended for general purposes only.

■ Due to a policy of continuous improvement Teksan reserves the right to amend details and specifications without notice and all information given is subject to the Teksan's current condition of sales.

## HYBRID LIGHTING TOWERS

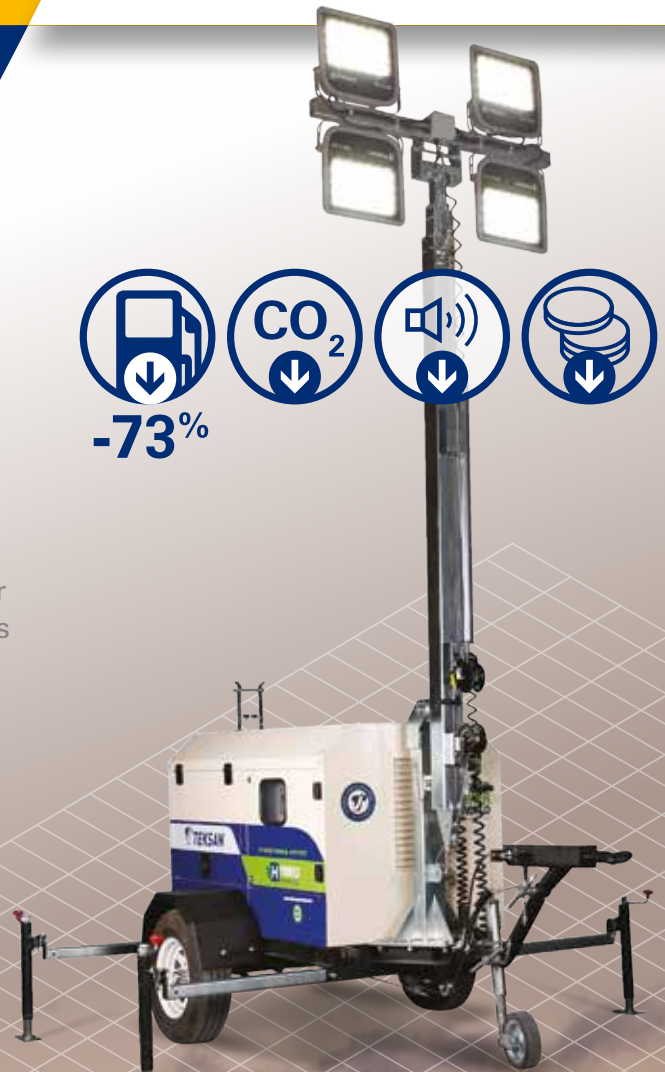


**Teksan Hybrid Lighting Tower** is an eco-friendly and cost efficient mobile enlightenment system. Thanks to its hybrid power technology, engine operation time is 83% lower than that of standard diesel lighting towers. Thus, it consumes less fuel up to 73% and radiates lower CO<sub>2</sub> and noise emissions. It also needs lower maintenance time up to 86%. Therefore, it is not only an eco-friendly solution for the nature, but also a cost-effective solution that delivers significant savings in OPEX and fuel costs.



### Hybrid Lighting Towers

	Specifications	TEKSAN
Lamp Specifications	Lighting Type	LED
	No. Of Lamps	4 x 215W
	Luminous Flux (lumens)	90300
Mast Specifications	Mast Height	9m
	Mast lifting System	Manual
	Mast Rotation	Manual
Gen-Set Specifications	Engine	Perkins 403A-11G
	Speed	1500 rpm
	Alternator	Sincro FB 4-48/200
	Output Voltage	48VDC
	GenSet Output Power	7,2 kW
	Fuel Tank	35 Liters
	Noise Rating	
Battery Specifications	Battery Type	LiFePO4
	Capacity	100Ah
	Operating Time	5 hours
	Recharging Time	1 hour
	Battery Life	3 years
Trailer Specifications	Certified Wind Stability	
	Open Dimensions-mm	3523,5x1500x9000
	Closed Dimensions-mm	4865x1500x1830
	Dry Weight	1200 kg
Performance Ratings	Max. Output Load Power (AC)	3 kW
	Saving in Fuel Consumption	73%
	Fuel Consumption per Day	4 Liters
	Fuel Transfer Time	8 days
	Reduction in Engine Operation Time	83%
	GenSet Running Time per Day	1,7 hours
	GenSet Maintenance Period	294 days
	Reduction in GenSet Maintenance Time	86%



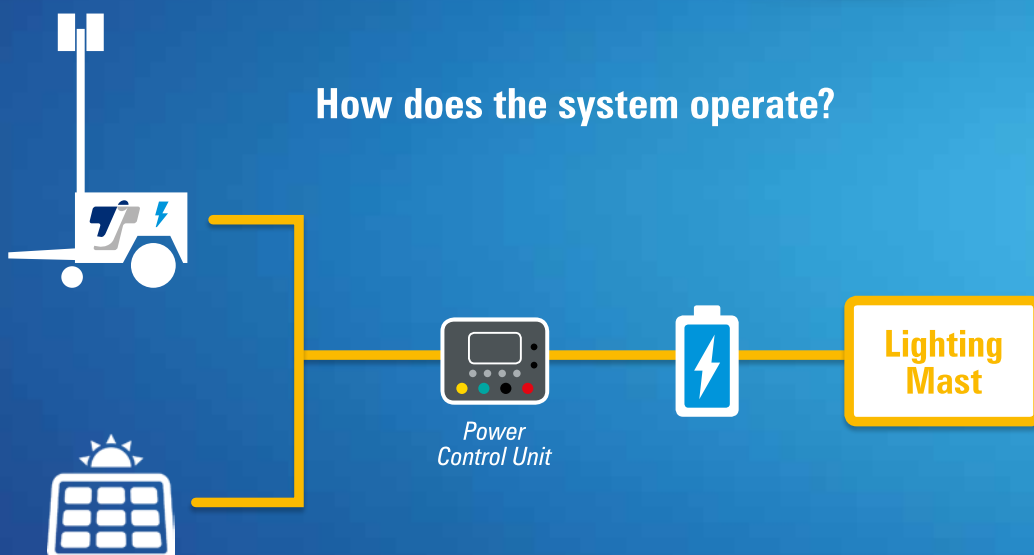
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# HYBRID LIGHTING TOWERS

Teksan Hybrid Lighting Tower is an eco-friendly system which delivers significant savings for your projects that require mobility.



How does the system operate?



# Lighting Towers Application Areas



*Construction Projects*



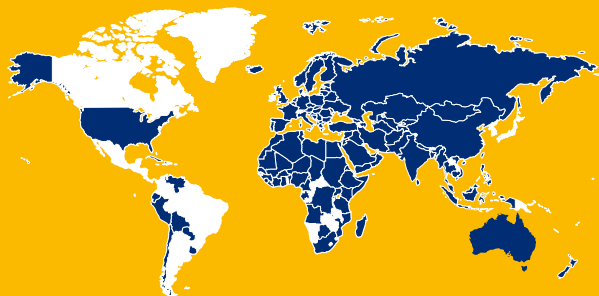
*Events*



*Mining*

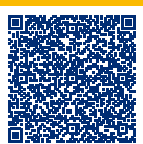


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