

# TJ22PE5A-LE

## 50 Hz Lighting Towers



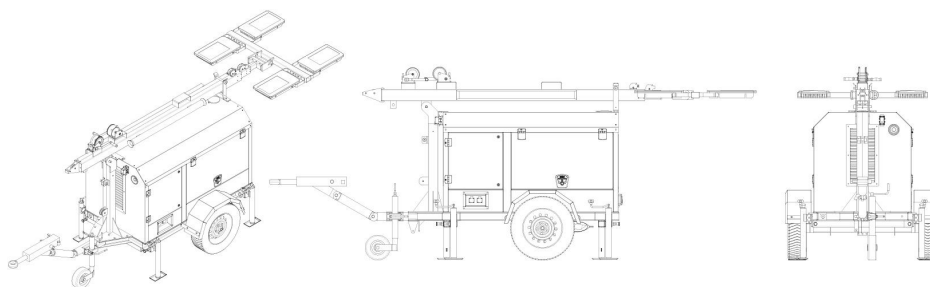
LED (Lm)	
4x14.490	
PROJECTOR (Lm)	
4x80.000	
MAST HEIGHT (m)	
MECHANICAL	ELECTRICAL
8.5	6

### Output Power

Standby Power (ESP)	kVA	22
	kW	18
Prime Power (PRP)	kVA	20
	kW	16

### Size

	W x L x H (mm)	Weight (kg)	Fuel Tank (lt)	Noise dB(A) @ 1m
Canopied				
Open Skid				



### Continuous Power

The maximum power which a generating set is capable of delivering continuously whilst supplying a constant electrical load. Average load can be 100%. The generator must not be overloaded.

### Standby Power

The max power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 hrs of operation per year under average of 70% load. Overloading isn't permissible.

### Prime Power

The maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load. Average load should be 70%. The generator can be overloaded 10% for 1 hour per 12 hrs.

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### Engine

Manufacturer		PERKINS
Model		404A-22G
Cylinder Configuration		INLINE
No of Cylinders		4
Displacement	lt	2.216
Bore	mm	84
Stroke	mm	100
Compression Ratio		23,3:1
Aspiration		NATURAL INTAKE
Governor Type		MECHANIC
Cooling System		WATER
Coolant Capacity	lt	7
Lubrication Oil Capacity	lt	4,9
Electrical System	VDC	12
Speed / Frequency 50 Hz	rpm	1500 rpm / 50 Hz
Engine Gross Power (Standby 50 Hz)	kW	20,6
Fuel Consumption %110 ESP 50 Hz	lt/h	6,2
Fuel Consumption %100 PRP 50 Hz	lt/h	5,4
Fuel Consumption %75 PRP 50 Hz	lt/h	4
Fuel Consumption %50 PRP 50 Hz	lt/h	2,9
Exhaust Outlet Temperature 50 Hz	°C	505
Exhaust Gas Flow 50 Hz	m3/min	3,94
Combustion Air Flow 50 Hz	m3/min	1,45
Cooling Air Flow 50 Hz	m3/min	29,4

### Alternator

Manufacturer		MARELLI
Model		MXB180XA4
No of Phases		3
Power Factor		0,8
No of Bearings		SINGLE
No of Poles		4
No of Leads		12
Voltage Regulation (Steady State)		± %0,5 [In Steady State, Speed from (-%2) to (+%5) and CosØ=0,8-1]
Insulation Class		H
Degree of Protection		IP 23
Excitation System		AVR (Automatic Voltage Regulator); Brushless
Connection Type		STAR
Total Harmonic Content (No Load)		< %2
Frequency	Hz	50
Voltage Output 50 Hz	VAC	230 / 400
Rated Power 50 Hz	kVA	22
Efficiency	%	86,1

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### General Specifications

TEKSAN Lightning Tower cabins have following standard specifications;

- Cabin designs which are providing mobility in works performed in open areas and works of which usage areas change and suitable for crane and forklift usage,
- Exhaust muffler embedded in the cabin,
- Emergency stop button located on the cabin,
- Air-suction channels developed to provide homogeneous cooling in the cabin,
- On-cabin case providing to fill water and anti-freeze to the radiator easily,
- Painting system reinforced against corrosion and oxidation,
- Advanced performance in terms of sound emission,
- Electric components and demounting parts providing easy care, maintenance, repair and carrying,
- Auxiliary power sockets,
- Collapsible tow-bar,
- Hand-brake,

In addition to standard cabins, TEKSAN is capable of manufacturing cabins at special sound level and sizes upon requests of customers.



### Optional Equipment

Some of the optional generator set equipment provided by Teksan are;

- Fuel tank, oil sump, panel, alternator winding heaters,
- Generator output switch,
- Isolated cabins suitable for special sound level demands,
- Trailer,
- Remote monitoring,
- Electric and mechanic tower security control,
- Projector position controls by electric and mechanic tower,
- Led and projector type lightning options,
- Diesel and hybrid power based solution options,
- Battery bank options at different capacity for hybrid solutions,

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### Control Panel Features-TJ 509-T

- The TJ-509T is a next generation genset control unit combining multi-functionality and wide communication possibilities together with a reliable and low cost design.
- The unit complies and mostly exceeds world's tightest safety, EMC, vibration and environmental standards for the industrial category.
- Software features are complete with easy firmware upgrade process through USB port. The Windows based PC software allows monitoring and programming through USB, RS-485, Ethernet and GPRS.
- The PC and server based Rainbow Scada software allows monitoring and control of an unlimited number of gensets from a single central location.

### Functions

- AMF unit with uninterrupted transfer
- ATS unit with uninterrupted transfer
- Remote start controller
- Manual start controller
- Engine controller
- Remote display & control unit
- Waveform display of V & I
- Harmonic analysis of V & I
- CTs at genset or load side

### Communications

- SM-GPRS
- Web monitoring
- Web programming
- GSM-SMS
- e-mail
- USB Device
- RS-232
- J1939-CANBUS



### Topologies

- 2 phase 3 wires, L1-L2
- 2 phase 3 wires, L1-L3
- 3 phase 3 wires, 3 CTs
- 3 phase 3 wires, 2 CTs (L1-L2)
- 3 phase 3 wires, 2 CTs (L1-L3)
- 3 phase 4 wires, star
- 3 phase 4 wires, delta
- 1 phase 2 wires

- Technical information and values are according to ISO8528, ISO3046, NEMA MG-1.22, IEC 600341, BS 4999-5000, VDE 0530 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 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.

TBA: To Be Asked TBD: To Be Determined NA: Not Available NA: Not Applicable TTDTJ22PE5A-LE20190519EN