

TJ12PE6A-LE

60 Hz Lighting Towers



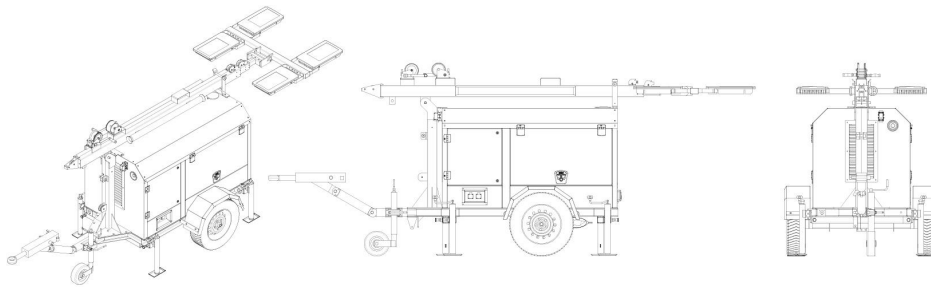
Output Power

Standby Power (ESP)	kVA	12
	kW	10
Prime Power (PRP)	kVA	11
	kW	9

Size

W x L x H (mm)	Weight (kg)	Fuel Tank (lt)	Noise dB(A) @ 1m
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Canopied	1135	35	TBA
Open Skid	1135	35	TBA



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		403D-11G
Cylinder Configuration		INLINE
No of Cylinders		3
Displacement	lt	1.131
Stroke	mm	81
Bore	mm	77
Compression Ratio		23:01
Aspiration		NATURAL INTAKE
Governor Type		MECHANIC
Cooling System		WATER
Coolant Capacity	lt	5
Lubrication Oil Capacity	lt	4,9
Electrical System	VDC	12
Speed / Frequency 60 Hz	Hz	1800 rpm / 60 Hz
Engine Gross Power (Standby 60 Hz)	kW	11,8
Fuel Consumption %110 ESP 60 Hz	lt/h	3,6
Fuel Consumption %100 PRP 60 Hz	lt/h	3
Fuel Consumption %75 PRP 60 Hz	lt/h	2,3
Fuel Consumption %50 PRP 60 Hz	lt/h	1,7
Exhaust Outlet Temperature 60 Hz	°C	515
Exhaust Gas Flow 60 Hz	m3/min	2,4
Combustion Air Flow 60 Hz	m3/min	0,9
Cooling Air Flow 60 Hz	m3/min	35,4

Alternator

Manufacturer		MARELLI
Model		MJB160XA4
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	60
Voltage Output 60 Hz	VAC	277 / 480
Rated Power (Standby) 480_60 Hz	kVA	18,7
Efficiency	%	85,9

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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 TTDTJ12PE6A-LE20190525EN