

TJ9PE5A-LE

50 Hz Lighting Towers



Output Power

| | | |
|---------------------|-----|---|
| Standby Power (ESP) | kVA | 9 |
| | kW | 7 |
| Prime Power (PRP) | kVA | 8 |
| | kW | 6 |

Size

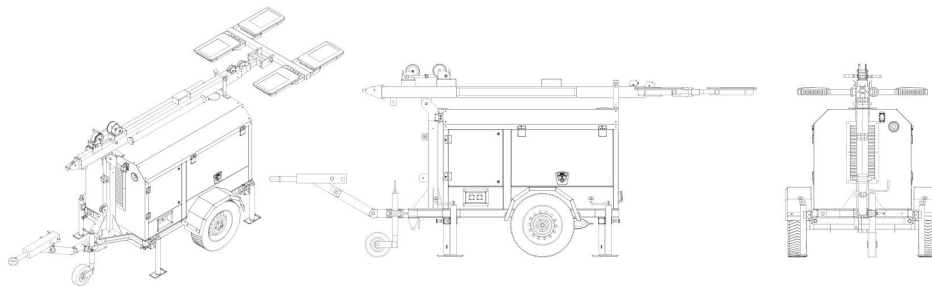
W x L x H
(mm)

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 | | 403A-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 | 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 | 9,5 |
| Fuel Consumption %110 ESP 50 Hz | lt/h | 2,9 |
| Fuel Consumption %100 PRP 50 Hz | lt/h | 2,6 |
| Fuel Consumption %75 PRP 50 Hz | lt/h | 2 |
| Fuel Consumption %50 PRP 50 Hz | lt/h | 1,5 |
| Exhaust Outlet Temperature 50 Hz | °C | 420 |
| Exhaust Gas Flow 50 Hz | m3/min | 1,8 |
| Combustion Air Flow 50 Hz | m3/min | 0,7 |
| Cooling Air Flow 50 Hz | m3/min | 26,4 |

Alternator

| | | |
|-----------------------------------|-----|---|
| Manufacturer | | MARELLI |
| Model | | MXB160SA4 |
| 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 [Steady State] |
| 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 | 11 |
| Efficiency | % | 81,2 |

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 TTDTJ9PE5A-LE20190525EN