

TJ5MS5M-LM

50 Hz Lighting Towers

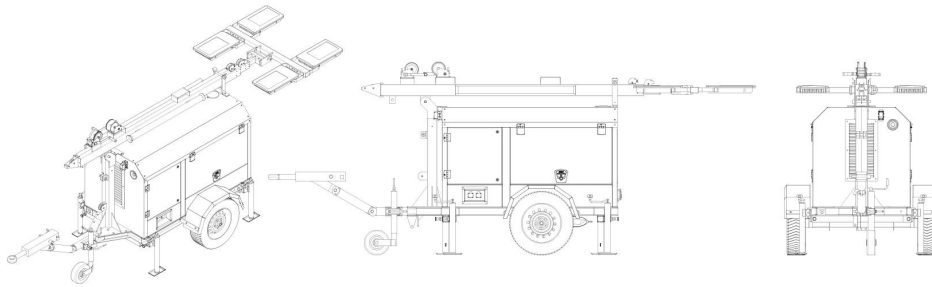


Output Power

Standby Power (ESP)	kVA	5
	kW	4
Prime Power (PRP)	kVA	4.5
	kW	3.6

Size

W x L x H (mm)	Weight (kg)	Fuel Tank (lt)	Noise dB(A) @ 1m
1415x2300x2540	650	15	78
2220x2600x6000	650	15	78



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.

Engine

Manufacturer		MITSUBISHI
Model		MVL3E-61SD-NP2
Cylinder Configuration		INLINE
No of Cylinders		3
Displacement	lt	0,952
Bore	mm	76
Stroke	mm	70
Compression Ratio		23:1
Aspiration		NATURALLY ASPIRATED
Governor Type		MECHANIC
Cooling System		WATER
Coolant Capacity	lt	1,8
Lubrication Oil Capacity	lt	4,2
Electrical System	VDC	12
Speed / Frequency 50 Hz	rpm	1500 rpm / 50 Hz
Engine Gross Power (Standby 50 Hz)	kW	7,4
Fuel Consumption % 110 ESP 50 Hz	lt/h	TBA
Fuel Consumption % 100 PRP 50 Hz	lt/h	2,1
Fuel Consumption % 75 PRP 50 Hz	lt/h	TBA
Fuel Consumption % 50 PRP 50 Hz	lt/h	TBA
Exhaust Outlet Temperature 50 Hz	°C	TBA
Exhaust Gas Flow 50 Hz	m ³ /min	TBA
Combustion Air Flow 50 Hz	m ³ /min	TBA
Cooling Air Flow 50 Hz	m ³ /min	TBA

Alternator

Manufacturer		NSM
Model		K132B
No of Phases		3
Power Factor		0,8
No of Bearings		SINGLE
No of Poles		4
No of Leads		2
Voltage Regulation (Steady State)		+5%, -8% (cosφ = 1)
Insulation Class		H
Degree of Protection		IP 23
Excitation System		Brushless with Capacitor
Connection Type		TBA
Total Harmonic Content (No Load)		< %5
Frequency	Hz	50
Voltage Output 50 Hz	VAC	120 / 240
Rated Power (Standby) 400_50 Hz	kVA	5
Efficiency (4/4_400 V_50 Hz)	%	77

General Specifications

TEKSAN Lighting 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,

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, ISO8046, NEMA MG-1.22, IEC 60034-1, 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 N/A: Not Applicable TTDTJ5MS5MLM20200221EN