

MAXiGEN

Diesel Generator Sets with Perkins Engine, Leroy Somer Alternator



Model: **TP50L**
Frequency: **50Hz**
Fuel type: **Diesel**
Powered by: **PERKINS SERIES**

415/240V-50Hz-3Phase

- Reliable heavy-duty Perkins, 4-cycle industrial diesel and low emissions engine
- Standard ComAp electronic control system with remote start/stop function
- Weather protective and sound attenuated enclosure
- Comprehensive warranty and service

TECHNICAL SPECIFICATIONS

Model	TP50L			
Power(ESP)	kVA/kw	50/40		
Power(PRP)	kVA/kw	45/36		
Starter Voltage	V	12		
Rated Rotation speed	r/min	1500		
Fuel Consumption	Litre/hour	Fuel consumption100% (of the Prime Power)	10.7 L / h	
		Fuel consumption75% (of the Prime Power)	8.2 L / h	
		Fuel consumption50% (of the Prime Power)	5.7 L / h	
		Fuel consumption25% (of the Prime Power)	3.4 L / h	
Fuel Tank Capacity	Litre	360		
Noise Level	dB(A)@7m	72		
Dimensions and Weight	Length	Width	Height	Weight
	2310 mm	1130 mm	1600 mm	1360 kg

ENGINE SPECIFICATIONS

Manufacturer	Perkins
Model	1103A-33T
Engine Speed Rated	1500 RPM
Cylinder /Arrangement	3 / Inline
Displacement	3.3 L
Bore and Stroke	105 mm x 127 mm
Compression Ratio	17.25:1
Max. Standby power at rated RPM	46.5 kW / 45 hP
Frequency Regulation , steady state	≤0.75%
Governor Type	Electrical
Total Oil Capacity w/Filters	8.3 L

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**MACFARLANE
GENERATORS**
ESTABLISHED 1949

Power Anywhere Anytime | MAXiGEN TP50L | 04.2024

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ALTERNATOR SPECIFICATIONS

Manufacturer	Leroy Somer TAL-A42-F
Phase	3
Power Factor	0.8
Pole	4
Bearing	1
Coupling	Direct
Exciter type	Brushless SHUNT
Insulation : Class , temperature rise	H / H
Degree of protection	IP23
AVR model	R220
Altitude	≤1000m
Winding Pitch	2/3
Winding Leads	6/12



EXHAUST SYSTEM

Exhaust Gas Flow	7.7L/h
Exhaust Temperature	537°C
Max Back Pressure	10 kPa

AIR SYSTEM

Engine Air Flow	3.1L/min
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COOLANT SYSTEM

Radiator & Engine Capacity	10.2 L
Max Water Temperature	110°C
Thermostat	82 - 93°C

Note: All data sheets are for reference only and subject to change without prior notice.

CONTROL PANEL

IntelliLite	IL-NT MRS16
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KEY FEATURES

- Manual and remote start capability
- 5 languages in the controller & translator functionality
- 3 level of password
- 3 sets of alternative configurations
- Magnetic pickup
- ECU support & tier 4 final ready
- Stage V support
- Plug-in module concept for more capabilities (RS232, RS485, Ethernet, GPRS, 4G/LTE, Modbus, SNMP, emails, SMS, I/Os)
- In-built PLC, complemented with a monitoring/debugging tool
- 8 binary outputs, 8 binary inputs, 4 analog inputs



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