

# MAXiGEN

## Diesel Generator Sets with Perkins Engine, Leroy Somer Alternator



Model: **TP22L**  
 Frequency: **50Hz**  
 Fuel type: **Diesel**  
 Powered by: **PERKINS SERIES**

### 240V-50Hz-1Phase

- 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

<b>Model</b>	<b>TP22L</b>			
<b>Power(ESP)</b>	kVA/kW	22 / 18		
<b>Power(PRP)</b>	kVA/kW	20 / 16		
<b>Rated Voltage</b>	V	240		
<b>Rated Rotation speed</b>	r/min	1500		
<b>Fuel Consumption</b>	Litre/hour	Fuel consumption100% (of the Prime Power)	5.3 L / h	
		Fuel consumption75% (of the Prime Power)	4.0 L / h	
		Fuel consumption50% (of the Prime Power)	2.9L / h	
<b>Fuel Tank Capacity</b>	Litre	132		
<b>Noise Level (approx)</b>	63dB(A) @ 7 m	70dB(A) @ 1 m		
<b>Dimensions and Weight</b>	<b>Length</b>	<b>Width</b>	<b>Height</b>	<b>Weight</b>
	2196 mm	1106 mm	1530 mm	1120 kg

#### ENGINE SPECIFICATIONS

<b>Manufacturer</b>	Perkins
<b>Model</b>	404A-22G1
<b>Engine Speed Rated</b>	1500 RPM
<b>Cylinder /Arrangement</b>	4 / L
<b>Displacement</b>	2.216L
<b>Bore and Stroke</b>	84 mm × 100 mm
<b>Compression Ratio</b>	23.3:1
<b>Max. Standby power at rated RPM</b>	20.6 kW
<b>Frequency Regulation , steady state</b>	± 0.75%
<b>Governor Type</b>	Mechanical
<b>Total Oil Capacity w/Filters</b>	6.0L

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**MACFARLANE  
GENERATORS**  
ESTABLISHED 1949

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## ALTERNATOR SPECIFICATIONS

Manufacturer	Leroy Somer LSA42.3 S4
Phase	1
Power Factor	0.8
Pole	2
Bearing	1
Coupling	Direct
Exciter type	SHUNT
Insulation : Class , temperature rise	H / H
Degree of protection	IP23
AVR model	R221
Altitude	≤1000m
Winding Pitch	2/3
Winding Leads	4



## EXHAUST SYSTEM

Exhaust Gas Flow	3.94m³/min
Exhaust Temperature	505°C
Max Back Pressure	10.2 kPa

## AIR SYSTEM

Engine Air Flow	1.45m³/min
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## COOLANT SYSTEM

Radiator & Engine Capacity	7.0L
Max Water Temperature	112°C
Thermostat	82 - 95°C

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

## CONTROL PANEL

InteliLite	MRS16
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### KEY FEATURES

- Manual and remote start capability
- 5 languages in the controller & translator functionality
- 2 high-current E-Stop binary outputs
- Power over USB for controller configuration
- True RMS measurement
- Full remote communications support (AirGate 2.0, WSV)
- Detailed history log with up to 350 records
- Plug-in module concept for more capabilities (Modbus, Internet, SMS, inputs/outputs, Ethernet, 4G, TCP/RTU, SNMP v1/v2c)
- In-built PLC, complemented with a monitoring/debugging tool
- 8 binary outputs, 8 binary inputs, 4 analog inputs



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