

LAT Air Cooled Saver Gensets

LAT 8 | LAT 15 | LAT 24 | Meccalte alternator

50 Hz, 1500r/min | 60 Hz, 1800r/min

4.4 - 20.2 kVA | 5.4 - 24.9 kVA

LAT 24 Saver Genset



BASIC CHARACTERISTICS

- 50Hz, 1500 r/min or 60Hz, 1800 r/min
- diesel fuelled and approved for operation on biodiesel, that conforms with ASTM D6751 and EN14214, concentrations of up to 20%
- Lister Petter T Series air cooled, direct injection, naturally aspirated diesel engine (1, 2 or 3 cylinders)
- hand start air cooled genset with electronic display module

* LAT 8 and LAT 15 - Please refer to Applications Department for cyclic irregularity implications

* LAT series gensets do not comply with noise directive 2000/14/EC

Note:

These engines do not comply with Harmonised International Regulated Emissions Limits.

STANDARD FEATURES

- Lister Petter T series
- electronic digital display module
- single-bearing, 4-pole brushless alternator
- 66-litre polypropylene fuel tank with contents gauge
- zirconium phosphated powder coated baseplate with forklift pockets
- bunded base retaining 110% of all fluids
- engine-mounted exhaust silencer
- anti vibration mountings
- hand starting only
- starting handle (not anti kick-back)
- mechanical governing
- flywheel mounted cooling fan
- operators' handbook
- electrical diagrams
- AC circuit breaker (2,3 or 4 pole)

OPTIONAL TIMES

A range of options allows you to select a specification that matches your requirements, please consult your Lister Petter distributor.

ELECTRONIC DISPLAY MODULE

The display module gives digital readouts of:

- generator voltage (phase-to-phase and phase-to-neutral)
- generator current (each phase displayed separately)
- output frequency
- output power
- hours run

ALTERNATOR SPECIFICATION

- single bearing, 4-pole brushless alternator
- solid state AVR with +1.5% voltage regulation as standard
- class "H" insulation on the rotor and stator
- IP23 protection class

POWER OUTPUTS³ | UNREGULATED EMISSIONS RATINGS

			50Hz				60Hz			
Model	Engine	Rating	1500 r/min				1800 r/min			
			Single phase		Three Phase		Single phase		Three Phase	
			220V* 230V* 240V*		380/220V* 400/230V* 415/240V*		220 or 110V* 230 or 115V* 240 or 120V*		220/127V* 230/133V*	
			kVA	kW	kVA	kW	kVA	kW	kVA	kW
LAT 8	TR1	COP ³	4.4	4.4	5.9	4.7	5.4	5.4	7.3	5.8
		PRP ¹	4.6	4.6	6.2	5.0	5.7	5.7	7.6	6.1
		ESP ²	4.8	4.8	6.5	5.2	5.9	5.9	8.0	6.4
LAT 15	TR2	COP ³	8.9	8.9	11.9	9.5	10.7	10.7	14.4	11.5
		PRP ¹	9.4	9.4	12.5	10.0	11.3	11.3	15.1	12.1
		ESP ²	9.8	9.8	13.1	10.5	11.8	11.8	15.8	12.6
LAT 24	TR3	COP ³	13.8	13.8	18.4	14.7	16.9	16.9	22.6	18.1
		PRP ¹	14.5	14.5	19.3	15.4	17.7	17.7	23.7	18.9
		ESP ²	15.2	15.2	20.2	16.2	18.5	18.5	24.9	19.9

APPROXIMATE FUEL CONSUMPTION

			50 Hz		60 Hz	
Genset	Engine	Load	1500 r/min		1800 r/min	
			g/kWh	l/h	g/kWh	l/h
LAT 8(A)	TR1	100%	229	1.5	238	1.9
		75%	224	1.1	234	1.4
LAT 15(A)	TR2	100%	237	3.1	237	3.7
		75%	234	2.3	239	2.8
LAT 24(A)	TR3	100%	230	4.6	229	5.5
		75%	233	3.5	227	4.1

Note:

Power outputs are based on Meccalte alternators, ratings may differ.

Power Factor (pf); single phase 1.0 pf; three phase 0.8 pf.

* Other voltages are available on request

**RATING DEFINITIONS
TO ISO 8528-1****Standard Reference Conditions**

A Lister Petter generating set is designed to operate in the following ISO 3046 environmental reference conditions.

Barometric pressure 100 kPa

Relative humidity 30%

Ambient air temperature at the inlet manifold 25°C

1. Prime Power (PRP)

This rating is for the supply of the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year.

The permissible average power output over 24 hours of operation shall not exceed 70 % of the PRP unless otherwise agreed by Lister Petter Power Systems Limited.

2. Emergency Standby Power (ESP)

Emergency standby power is defined as the maximum power available during a variable electrical power sequence, 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 hours of operation per year.

The permissible average power output over 24 hours of operation shall not exceed 70% of the ESP unless otherwise agreed by Lister Petter Power Systems Limited. The actual average power output shall be below or equal to the permissible average power output as defined for ESP. The above ratings are subject to the following ISO 3046 standard operating conditions, the use of fuel to BS EN 590 Class A1 or A2, lubricating oils of the correct performance specification and viscosity classification and that the maintenance intervals and procedures are carried out as prescribed by Lister Petter Power Systems Limited.

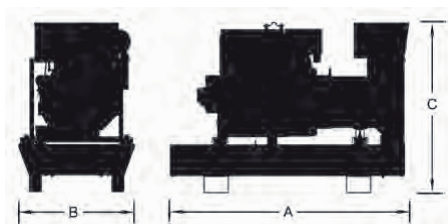
3. Continuous Power (COP)

This rating is for the supply of a constant load for an unlimited number of hours annually.

Derating

For non-standard site conditions, reference should be made to relevant BS, ISO & DIN standards.

APPROXIMATE DIMENSIONS AND WEIGHT



		Open sets		
		LAT 8	LAT 15	LAT 24
Dry weight	kg	358	428	518
	lb	789	944	1142
Length (A)	mm	1080	1190	1400
	in	42.5	47.0	55.0
Width (B)	mm	698	698	698
	in	27.5	27.5	27.5
Height (C)	mm	972	972	972
	in	38.0	38.0	38.0

**Head Office**

Lister Petter Power Systems Limited
Broadmeadow Industrial Estate
Teignmouth, TQ14 9AE
T: +44 (0) 1285 702211

Production Facility

Lister Petter Power Systems Limited
Units 13-15 Quadrant Distribution Centre
Hardwicke, Gloucester, GL2 2RN

sales@listerpetter.com
www.listerpetter.com

Distributor Address

 **MADE IN BRITAIN**