



Features:

- Excitation system: self-excited (AREP and PMG are optional)
- ATS (automatic transfer switch) receptacle
- Lockable battery isolator switch
- Stainless galvanized zinc plates with strong corrosion resistance
- Vibration isolators between the engine/alternator and base frame
- Integrated wiring design
- Base fuel tank for at least 8 hours running
- Equipped with an industrial muffler
- Engine oil pump
- 50 ℃ radiator
- Top lifting and steel base frame with forklift holes
- Drainage for fuel tank
- Complete protection functions and safety labels
- IP54 (soundproof sets), IP56 (control system)
- Water jacket preheater, oil heater and double air cleaner, etc. are available.

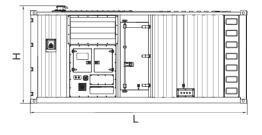
	URO POWER

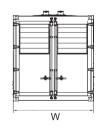
Output Ratings				
Generating Set Model	Prime	Standby		
EP800	800kVA/640kW	880kVA/704kW		

Ratings at 0.8 power factor.

Ratings and Performance Data					
Engine Make & Mo	4006-23TAG3A				
Alternator Mode	el:	LSA49.1M75			
Alternator Bran	d:	Leroy Somer			
Control System	n:	PLC-7420			
Noise Level@7	1				
Circuit Breaker T	1				
Frequency & Pha	50Hz & 3PH				
Engine Speed: R	1500				
Structure Type: EP800		С			
Fuel Tank Capacity: L EP800		1150			
Fuel Consumption: I/hr	Prime	1			
(100% Load)	Standby	1			

Dimensions and Weights						
Generating Set Model	Length (L) mm (in)	Width (W) Height (H) Dry Wet mm (in) mm (in) kg (lb) kg (lb)				
EP800	6058	2438	2725	11248	/	
Dry = With Lube Oil Wet = With Lube Oil and Coolant						





Also available in the following voltages: 415/240V-380/220V-220/127V-200/115V;

ESP: Standby Power Standby duty, operation under variable load, without over load;

PRP: Prime Power-Continuous duty operation, under variable load 24/24h-10% over load permissible 1 hour/12 hours; The data is only for your reference but not for use of sales.

M: Mechanical speed governor, E/ECU: Electronic speed governor;

NA: Naturally aspirated, TC: Turbocharged, TCA: Turbocharged and air-air aftercooled. TCW: Water-cooled Turbocharged; The weights are approximate and without fuel.





Engine model: 4006-23TAG3A

Cooling system

Temperate

Maximum additional restriction (duct allowance) to cooling airflow. (TAG2A and TAG3A standby power) and resultant minimum airflow						
Ambient clearance: Duct allowance 50% Glycol mm H ₂ O Min airflow m³/sec						
rev/	min	rev/min rev/min			min	
1500	1800	1500	1800	1500	1800	
36°C	39°C	25	25	13	16	

Tropical

Maximum additional restriction (duct allowance) to cooling airflow. (TAG2A and TAG3A standby power) and resultant minimum airflow						
Ambient clearance: Duct allowance inhibited coolant mm H ₂ O Min airflow m ³ /					w m³/sec	
rev	min /	rev/min		rev/min		
1500	1800	1500	1800	1500	1800	
50°C	50°C	13	20	20	22	

The above information at 1500 rev/min applies for ½ TA Luft and Best SFC ratings.

Radiator

Rows and materials 3 rows of brass tubes
Gills per inch and material -jacket water
Width and height of matrix-height
Charge cooler, integral with radiator Face area

Coolant pump

Speed and method of drive1.4 x e rev/min Gear

Fan

Type	
Speed:	
-1500	
-1800	1404 rev/min

Diameter 1,2 m Number of blades: 6 -Temperate 6 -Tropical 8 Material Steel Drive ratio 0.78:1
Lubrication system Recommended lubricating oil to conform with the specification of API CG4 15W/40
Lubricating oil capacity -sump maximum
Lubrication oil pressure at rated speed Minimum
Oil pump flow -1500 rev/min
Normal operating angles 5° Front and rear. 10°
Electrical system
Type
Fuel system
Recommended fuel To conform to BS2869 1998 Class A1, A2 Type of injection system
Induction system

Maximum air intake restriction of engine

Exhaust back pressure for total system

Exhaust system

Exhaust outlet size (internal)... 2 x 152,4 mm



EP800

Alternator model: LSA49.1M75

SPECIALLY ADAPTED FOR APPLICATIONS

The LSA 49.1 alternator is designed to be suitable for typical generator applications, such as: backup, standard production, cogeneration, marine applications, rental, telecommunications, etc.

COMPLIANT WITH INTERNATIONAL STANDARDS

The LSA 49.1 alternator conforms to the main international standards and regulations:

IEC 60034, NEMA MG 1.22, ISO 8528, CSA, CSA/UL, marine regulations, etc.

It can be integrated into a CE marked generator.

The LSA 49.1 is designed, manufactured and marketed in an ISO 9001 environment.

TOP OF THE RANGE ELECTRICAL PERFORMANCE

- Class H insulation.
- Standard 6-wire re-connectable winding, 2/3 pitch, type no. 6.
- Voltage range 50 Hz: 380V 400V 415V and 220V 230V 240V,
- Voltage range 60 Hz: 380V 416V 440V 480V and 220 V 240 V.
- High efficiency and motor starting capacity.
- Other voltages are possible with optional adapted windings :
 - 50 Hz: 440 V (no. 7), 500 V (no. 9), 600 V (no. 22 or 23), 690 V (no. 10 or 52)
 - 60 Hz: 380 V and 416 V (no. 8), 600 V (no. 9).
- THD Total harmonic distortion < 4% (full load).
- R 791 interference suppression conforming to standard EN 55011 group 1 class B standard for European zone (CE marking).

EXCITATION AND REGULATION SYSTEM SUITED TO THE APPLICATION

	Excitation	n system	Regulation options				
Voltage regulator	AREP	PMG	Current transformer for paralleling	R 726 Mains paralleling	R 731 3-phase sensing	R 734 3-phase sensing mains paralleling unbalanced	Remote voltage potentiometer
R 450	Std	Option	V	V	V	V	√
D 510	Optional	Optional	V	Included	Included	contact factory	V

Voltage regulator accuracy +/- 0.5%.

 $\sqrt{}$: possible mounting

PROTECTION SYSTEM SUITED TO THE ENVIRONMENT

- The LSA 49.1 is IP 23.
- Standard winding protection for clean environments with relative humidity ≤ 95 %, including indoor marine environments.

Options: - Filters on air inlet: derating 5%.

- Filters on air inlet and air outlet (IP 44) derating 10%.
- Winding protections for harsh environments and relative humidity greater than 95%.
- Space heaters.
- Thermal protection for winding.

REINFORCED MECHANICAL STRUCTURE USING FINITE ELEMENT MODELLING

- Standard direction of rotation: clockwise when looking at the drive end view (engine side).
- $\hbox{-} \ Compact and \ rigid \ assembly to \ better \ with stand \ generator \ vibrations.$
- Steel frame.
- Cast iron flanges and shields.
- Twin-bearing and single-bearing versions designed to be suitable for engines on the market.
- Half-key balancing.
- Regreasable bearings.
- Standard direction of rotation: clockwise when looking at the drive end view (for anti-clockwise, derate the machine by 5%).

ACCESSIBLE TERMINAL BOX PROPORTIONED FOR OPTIONAL EQUIPMENT

- Easy access to the voltage regulator and to the connections.
- Possible clusion of accessories for paralleling, protection and measurement.
- Connection bar for reconnecting voltage.



Control System PLC-7420

PLC-7420 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, breaker control. and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and display all values and alarms information on the LCD. In addition, the control module can automatically shut down the engine and indicate the engine failure.

FEATURES

- Microprocessor control, with high stability and credibility
- Monitoring and measuring operational parameters of the mains supply and genset
- Indicating operation status, fault conditions, all parameters and alarms
- Multiple protections; multiple parameters display, like pressure, temp. etc.
- Manual, automatic and remote work mode selectable
- Real time clock for time and date display, overall runtime display, 250 log entries
- Overall power output display
- Integral speed/frequency detecting, telling status of start, rated operation, overspeed etc.
- Communication with PC via RS485 OR RS232 interface, using MODBUS protocol
- a Button (next page)
- b Button (increase value / previous item)
- c Button (accept)
- d Button (previous page)
- e Button (decrease value / next item)
- f Button (transfer the load to the mains supply, when in Manual mode only)
- g Mains supply available LED
- h Stop / Reset button
- i Manual button (Manual control mode)
- j Mains supply on load LED
- k Test button (Test mode) | Auto button (Auto mode)
- m Genset on load LED
- n Mute/Lamp test button
- o Start button (Manual)
- P Genset available LED
- q Button (transfer the load to the genset, when in Manual mode only)
- r Alarm LED (4 alarm items)
- s LCD display
- t Control module name



