

EP600

Features:

· Rotate speed governor: Electronic

Excitation system: AREPA.V.R model: R250/R450Emergency stop switch

• ATS (automatic transfer switch) receptacle

•2x12V sealed for life maintenance free battery

· Lockable battery isolator switch

 Powder coated canopy (Only for Soundproofed sets)

• 50 & radiator

· Oil pump on the engine

Steel base frame with fork holes

 Vibration isolators between the engine/alternator and base frame

Dry type air filter

· Base fuel tank for daily running

· Drain points for fuel tank

· Operation Manual / Specifications

Dimensions and Weights

Model	Length (L) mm	Width (W) mm	Height (H) mm	Dry Weight kg
EP600	4500	1550	2450	6856

Notes:

*Prime Power

Continuous duty operation, under variable load 24/24h-10% over load permissible 1 hour/12 hours;

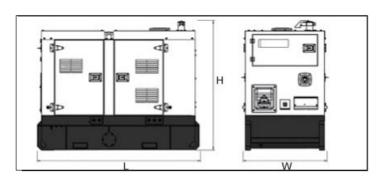
**Standby Power

Standby duty, operation under variable load, without over load;

Standard Reference Conditions

Note: Standard reference conditions 25°C (77°F) Air Inlet Temp, 100m(328 ft) A.S.L. 30% relative humidity.

Fuel consumption data at full load with diesel fuel with specific gravity of 0.85 and conforming to BS2869: 1998, Class A2.





Output Ratings				
Generating Set Model	Prime Power*	Standby Power**		
EP600	600kVA/480kW	660kVA/528kW		

Ratings at 0.8 power factor

Ratings and Performance Data

Engine Make & Model:	Perkins 2806A-E18TAG1A
Alternator Brand:	Leroy somer
Alternator Model:	LSA47.2L9
Control System:	Auto Gen
Circuit Breaker Type:	3 Pole MCCB
Frequency & Phase:	50Hz & 3PH
Engine Speed: RPM	1500
Fuel Tank Capacity: litres	
EP600	1020
Fuel Consumption: I/hr (100% Load)	
- Prime Power	123
-Standby Power	134





Engine model:2806A-E18TAG1A

Engine Technical Data			
No. of Cylinders / Alignment:	6/Vertical, in-line		
Cycle:	4 Stroke		
Bore / Stroke: mm	145/183		
Induction:	Turbocharged		
Cooling Method:	Water cooled		
Governing Type:	Electronic		
Governing Class:	ISO 8528-5 Class G3		
Compression Ratio:	14.5:1		
Displacement:	18.13L		
Moment of Inertia: kg m²	2.31		
Engine Electrical System:			
- Voltage / Ground	24/Insulated return		
- Battery Charger Amps	24/70		
Weight: kg - Dry	2050		
- Wet	2158		

Cooling System C	apacity:	61		
Capacity without	Radiator: I	N/A		
Energy to Water & Lube Oil:				
κWt	- Prime	208		
	- Standby	222		
Energy to Radiation: kWt - Prime 38 - Standby 42				
-	d Restriction	18.1/18.9		
Losses: kWt		18.1/18.9 702		
Energy to Fan and Losses: kWt Radiator Cooling External Restriction Cooling Airflow: F	Airflow: m³/min			
Losses: kWt Radiator Cooling External Restrictic Cooling Airflow: F	Airflow: m³/min	702 N/A		

		na	

Engine Speed: rpm	1500
Gross Engine Power: kW	
- Prime	539.7
- Standby	592.7
BMEP: kPa	
- Prime	2381
- Standby	2615

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Cooling System

Fuel Filter Type: Replaceable Element						
Recommended Fuel: Diesel Class A2						
Fuel Consumption: I/hr						
Prime 110% 100% 75% 50% Load Load						
EP600	134	123	90	61		

(Based on diesel fuel with a specific gravity of 0.85 and conforming to BS2869,Class A2)

Lubrication System	
Oil Filter Type:	Spin-On, Full Flow
Total Oil Capacity: I	62
Minimum: I	45
Oil Type:	API-CG4/APEA E5
Oil Cooling Method:	Water-cooled

Exhaust System

Silencer Type:	Industrial
Exhaust Outlet Size (internal):	202mm
Silencer Noise Reduction Level:	N/A
Maximum Allowable Back	6.9
Pressure: kPa	
Exhaust Gas Flow: m³/min	
- Prime	96.0
- Standby	104
Exhaust Gas Temperature: °C	
- Prime	568
- Standby	571

Air Systems

Air Filter Type:	Paper Element
Combustion Air Flow: m³/min	24
- Prime - Standby	34 36
Max. Air Intake Restriction: kPa	6.4

The weights are approximate and without fuel.



EP600

Alternator model: LSA47.2L9

Alternator Physical Data				
Manufactured by:	Leroy somer			
Model:	LSA47.2L9			
No. of Bearings:	Single			
Insulation Class:	Н			
Winding Pitch Code:	2/3			
Wires:	12			
Ingress Protection Rating:	IP23			
Excitation System:	SHUNT, AREP or			
	PMG			
AVR Model:	R250, R450			

Alternator Performance Data:	EP600
Data Item	
Motor Starting Capability* kVA	1258/1400
Short Circuit Ratio** %	0.37
Reactances: Per Unit Xd X'd	330 16.5
X"d	11.4

Overspeed: rpm	2250min ⁻¹
Voltage Regulation: (Steady state)	±0.5%
Wave Form NEMA = TIF:	<50
Wave Form IEC = THF:	<2%
Total Harmonic content LL/LN:	No load <1.5%-on load
	<2%
Radio Interference:	
Radiant Heat: kW (Btu/min)	
EP600	

EP600

Alternator Operating Data

Voltage Technical Data

Voltage	Prime:		Standby:	
	kVA	kW	kVA	kW
380/220V	600	480	630	504
400/230V/200V	600	480	630	504
415/240V	600	480	630	504

Control System **PLC-7420**

FEATURES

- Microprocessor control, with high stability and credibility.
- Mains supply and generator operation monitoring.
- Indicating operation status and fault conditions.
- Multiple protections; multiple parameters display, such as pressure, temperature.
- Manual and automatic work mode selectable.
- Real time clock for time and date display, overall runtime display, 99 log entries
- Overall power output display.
- Integral speed/frequency detecting, telling status of start, rated operation, overspeed.
- Communication with PC via RS485 or RS232 interface, using MODBUS protocol.
- Engine ECU is available.
- Common USB cable is usable for parameter configuration.
- Multi-language is available.

