

Features:

- Rotate speed governor: Mechanical governor
- Excitation system: self-excited
- A.V.R model: R250/R438
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 1x12V sealed for life maintenance free battery
- Lockable battery isolator switch
- Powder coated canopy
(Only for Soundproofed sets)
- 50Ø 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



Output Ratings

Generating Set Model	Prime Power*	Standby Power**
EP150	150kVA/120kW	165kVA/132kW

Ratings at 0.8 power factor

Dimensions and Weights

Model	Length (L) mm	Width (W) mm	Height (H) mm	Dry Weight kg
EP150	3450	1150	1750	2358

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;

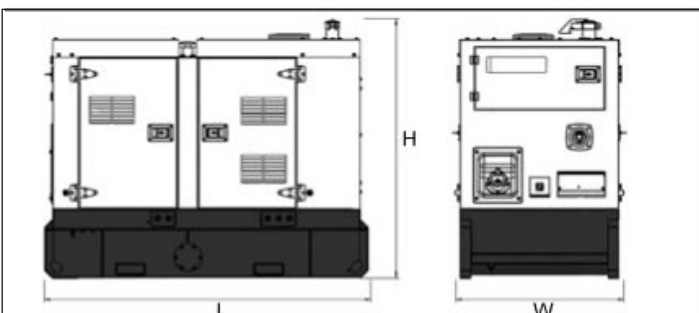
Standard Reference Conditions

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.

Ratings and Performance Data

Engine Make & Model:	Perkins 1006TAG2
Alternator Brand:	Leroy somer
Alternator Model:	LSA44.2M95
Control System:	Auto Gen
Circuit Breaker Type:	3 Pole MCCB
Frequency & Phase:	50Hz & 3PH
Engine Speed: RPM	1500
Fuel Tank Capacity: litres EP150	500
Fuel Consumption: l/hr (100% Load) - Prime Power - Standby Power	41 45



Engine model:1006TAG2

Engine Technical Data

No. of Cylinders / Alignment:	6/ Vertical, in-line
Cycle:	4 Stroke
Bore / Stroke: mm	100/127
Induction:	Turbocharged
Cooling Method:	Water
Governing Type:	Electronic
Governing Class:	N/A
Compression Ratio:	17.0:1
Displacement:	5.99L
Moment of Inertia: kg m²	0.2996
Engine Electrical System:	
- Voltage / Ground	12/Negative
- Battery Charger Amps	12/55
Weight: kg	
- Dry	586
- Wet	630

Performance

Engine Speed: rpm	1500
Gross Engine Power: kW	
- Prime	136.8
- Standby	150.5
BMEP: kPa	
- Prime	1825.0
- Standby	2007.0

Lubrication System

Oil Filter Type:	Spin-On, Full Flow
Total Oil Capacity: l	19
Sump only: l	16
Oil Type:	API-CD/SE or CCMC-D4
Oil Cooling Method:	Water

Exhaust System

Silencer Type:	Industrial
Inside Diameter of Outlet Flange:	78mm
Silencer Noise Reduction Level:	N/A
Maximum Allowable Back Pressure: kPa	N/A
Exhaust Gas Flow: m³/min	
- Prime	29.1
- Standby	31.3
Exhaust Gas Temperature: °C	
- Prime	580
- Standby	595

Cooling System

Capacity with Radiator: l	37.22
Capacity without Radiator: l	12.70
Heat to Water & Lube Oil: kW	
- Prime	68.5
- Standby	73.4
Heat to Radiation: kW	
- Prime	14.0
- Standby	17.0
Radiator Fan Load: kW	N/A
Radiator Cooling Airflow: m³/min	154/154
External Restriction to Cooling Airflow: Pa	N/A

Designed to operate in ambient conditions up to 50°C (122°F).

Fuel System

Fuel Filter Type:	Replaceable Element				
Recommended Fuel:	Diesel Class A2				
Fuel Consumption: l/hr					
	Prime	110% Load	100% Load	75% Load	50% Load
EP150	45	41	31	20	

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

Air Systems

Air Filter Type:	Dry Element
Combustion Air Flow: m³/min	
- Prime	10.1
- Standby	10.7
Max. Air Intake Restriction: kPa	
-clean filter	3.0
-dirty filter	5.0

The weights are approximate and without fuel.

Alternator model: LSA44.2M95

Alternator Physical Data	
Manufactured by:	Leroy somer
Model:	LSA44.2M95
No. of Bearings:	Single
Insulation Class:	H
Winding Pitch Code:	2/3
Wires:	12
Ingress Protection Rating:	IP23
Excitation System:	SHUNT, AREP OR PMG
AVR Model:	R250, R438

Alternator Operating Data	
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 <2%-on load <2%
Radio Interference:	
Radiant Heat: kW (Btu/min)	
EP150	

Alternator Performance Data: EP150	
Data Item	
Motor Starting Capability* kVA	284.2/392.2
Short Circuit Ratio** %	0.42
Reactances: Per Unit	317
Xd	
X'd	11
X''d	6.6

Voltage Technical Data EP150				
Voltage	Prime:		Standby:	
	kVA	kW	kVA	kW
380/220V	150	120	156	126
400/230V	150	120	156	126
415/240V	145	116	150	120

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.

