EURO POWER®

EP Series

EP250

Features:

- Rotate speed governor: Electronic
- Excitation system: self-excited, SHUNT
- A.V.R model: R250/R450
- Emergency 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)
- 50ℓ 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**
EP250	250kVA/200kW	275kVA/220kW

Ratings at 0.8 power factor

Dimensions and Weights

Model	Length (L) mm	Width (W) mm	Height (H) mm	Dry Weight kg
EP250	4250	1400	2150	3147

Ratings and Performance Data

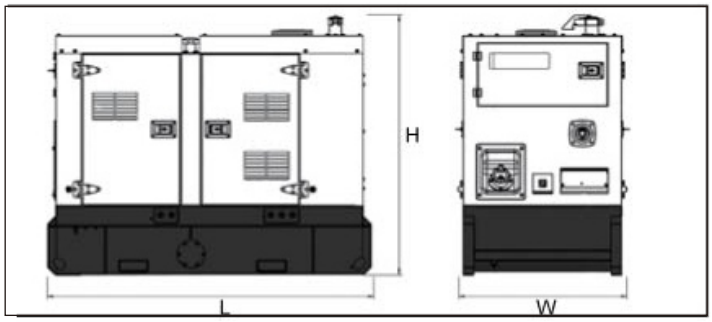
Engine Make & Model:	Perkins 1306C-E87TAG6
Alternator Brand:	Leroy somer
Alternator Model:	LSA46.2L6
Control System:	Auto Gen
Circuit Breaker Type:	3 Pole MCCB
Frequency & Phase:	50Hz & 3PH
Engine Speed: RPM	1500
Fuel Tank Capacity: litres **EP250**	660
Fuel Consumption: l/hr (100% Load) **- Prime Power** **-Standby Power**	 54 59

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.



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Engine model:1306C-E87TAG6

Engine Technical Data

No. of Cylinders / Alignment:	6/Vertical, in-line
Cycle:	4 Stroke
Bore / Stroke: mm	116.6/135.9
Induction:	Turbocharged
Cooling Method:	Water cooled
Governing Type:	Electronic
Governing Class:	BS 2869 CLASS A2
Compression Ratio:	16.9:1
Displacement:	8.7L
Moment of Inertia: kg m²	0.536
Engine Electrical System:	
- Voltage / Ground	24/Negative
- Battery Charger Amps	24/50
Weight: kg **- Dry**	889
- Wet	939

Cooling System

Capacity with Radiator: l	24.2
Capacity without Radiator: l	N/A
Energy to Coolant and Oil:	
kWt - Prime	98
- Standby	101
Energy to Radiation:	
kWt	
- Prime 9	
- Standby 11	
Energy to Cooling Fan: kWm	11
Radiator Cooling Airflow: m³/min (	440
External Restriction to Cooling Airflow: Pa	N/A

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

Performance

Engine Speed: rpm	1500
Gross Engine Power: kWb	
- Prime	228
- Standby	250
BMEP: kPa	
- Prime	2099
- Standby	2298

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
EP250	49.7	45.0	36.0	24.0

(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: l	26.5
Minimum: l	22.7
Oil Type:	API-CI-4/DHD-1
Oil Cooling Method:	Water-cooled

Exhaust System

Silencer Type:	Industrial
Exhaust Outlet Size:	N/A
Silencer Noise Reduction Level:	N/A
Maximum Allowable Back Pressure: kPa	10.7
Exhaust Gas Flow: kg/s	
- Prime	0.30
- Standby	0.32
Exhaust Gas Temperature: °C	
- Prime	579
- Standby	579

Air Systems

Air Filter Type:	Dry Paper Element
Combustion Air Flow:kg/s	
- Prime	0.29
- Standby	0.31
Max. Air Intake Restriction: kPa	
-clean filter	2.5
-dirty filter	6.22

The weights are approximate and without fuel.

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Alternator model: LSA46.2L6

Alternator Physical Data

Manufactured for FG Wilson by:	Leroy somer
Model:	LSA46.2L6
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, R450

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 <2.5%-on load <2.5%
Radio Interference:	
Radiant Heat: kW (Btu/min)	
EP250	

Alternator Performance Data: EP250

Data Item	
Motor Starting Capability* kVA	462/504
Short Circuit Ratio %**	0.41
Reactances: Per Unit	
Xd	327
X'd	15.5
X"d	9.3

Voltage Technical Data EP250

Voltage	Prime:		Standby:	
	kVA	kW	kVA	kW
380/220V	250	200	254	203
400/230V	250	200	260	208
415/240V	240	192	254	203

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.