

Features:

- Rotate speed governor: Mechanical governor
- Excitation system: self-excited, SHUNT
- A.V.R model: R250/R450
- 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**
EP200	200kVA/160kW	220kVA/176kW

Ratings at 0.8 power factor

Dimensions and Weights

Model	Length (L) mm	Width (W) mm	Height (H) mm	Dry Weight kg
EP200	3600	1300	1900	3058

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;

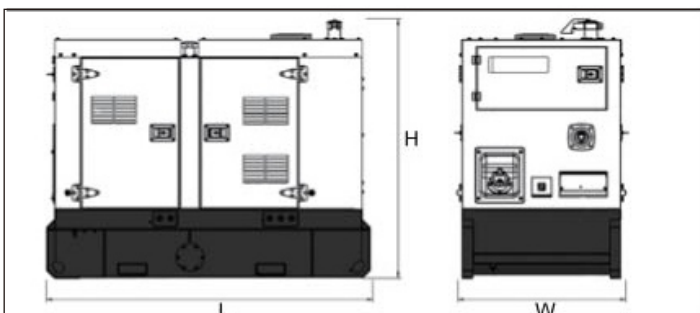
Standard Reference Conditions

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 1306C-E87TAG3
Alternator Brand:	Leroy somer
Alternator Model:	LSA46.2M5
Control System:	Auto Gen
Circuit Breaker Type:	3 Pole MCCB
Frequency & Phase:	50Hz & 3PH
Engine Speed: RPM	1500
Fuel Tank Capacity: litres EP200	520
Fuel Consumption: l/hr (100% Load) - Prime Power - Standby Power	46 43



Engine model:1306C-E87TAG3

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 2689 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

Performance

Engine Speed: rpm	1500
Gross Engine Power: kW	
- Prime	191
- Standby	210
BMEP: kPa	
- Prime	1759
- Standby	1929

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: m³/min	
- Prime	0.27
- Standby	0.28
Exhaust Gas Temperature: °C	
- Prime	573
- Standby	573

Cooling System

Capacity with radiator: l	24.2
Capacity without radiator: l	N/A
Energy to coolant and oil: kWt	
- Prime	92
- Standby	95
Energy to radiation: kWt	
- Prime 6	
- Standby 8	
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).

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
EP200	49	46	37	27	

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

Air Systems

Air Filter Type:	Dry Paper Element
Combustion Air Flow: m³/min	
- Prime	0.25
- Standby	0.27
Max. Air Intake Restriction: kPa	
-clean filter	2.5
-dirty filter	6.22

The weights are approximate and without fuel

Alternator model: LSA46.2M5

Alternator Physical Data

Manufactured for FG Wilson by:	Leroy somer
Model:	LSA46.2M5
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)	
EP200	

Alternator Performance Data: EP200

Data Item	
Motor Starting Capability* kVA	397/434
Short Circuit Ratio** %	0.45
Reactances: Per Unit	
Xd	301
X'd	147
X''d	8.8

Voltage Technical Data EP200

Voltage	Prime:		Standby:	
	kVA	kW	kVA	kW
380/220V	200	160	214	171
400/230V	200	160	214	171
415/240V	200	160	214	171

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.

