

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)
- 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**
EP350	350kVA/280kW	385kVA/308kW

Ratings at 0.8 power factor

Dimensions and Weights

Model	Length (L) mm	Width (W) mm	Height (H) mm	Dry Weight kg
EP350	4450	1500	2200	4432

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;

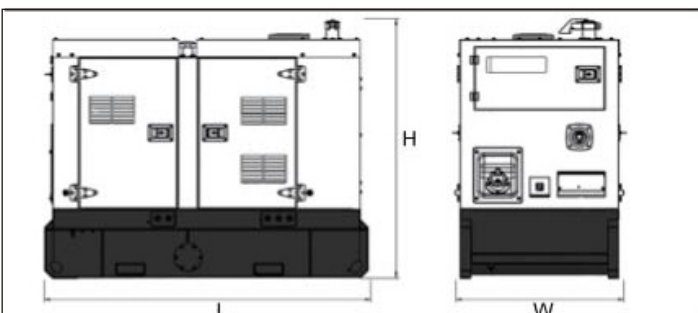
Standard Reference Conditions

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 2206A-E13TAG2
Alternator Brand:	Leroy somer
Alternator Model:	LSA47.2VS1
Control System:	Auto Gen
Circuit Breaker Type:	3 Pole MCCB
Frequency & Phase:	50Hz & 3PH
Engine Speed: RPM	1500
Fuel Tank Capacity: litres EP350	800
Fuel Consumption: l/hr (100% Load) - Prime Power - Standby Power	71 80



Engine model:2206A-E13TAG2

Engine Technical Data

No. of Cylinders / Alignment:	6/Vertical in-line
Cycle:	4 Stroke
Bore / Stroke: mm	130/157
Induction:	Turbocharged
Cooling Method:	Water cooled
Governing Type:	Electronic
Governing Class:	ISO 8528-5 Class G2
Compression Ratio:	16.3:1
Displacement:	12.5L
Moment of Inertia: kg m²	1.36
Engine Electrical System:	
- Voltage / Ground	24/Negative
- Battery Charger Amps	24/70
Weight: kg	
- Dry	1478
- Wet	1582

Performance

Engine Speed: rpm	1500
Gross Engine Power: kW	
- Prime	368.4
- Standby	412.5
BMEP: kPa	
- Prime	2344
- Standby	2637

Lubrication System

Oil Filter Type:	Spin-On, Full Flow
Total Oil Capacity: l	40
Minimum: l	32.5
Oil Type:	API-CH-SAE15W-40
Oil Cooling Method:	Water-cooled

Exhaust System

Silencer Type:	Industrial
Exhaust Outlet Size:	123mm
Silencer Noise Reduction Level:	N/A
Maximum Allowable Back Pressure: kPa	N/A
Exhaust Gas Flow: m³/min	
- Prime	56.6
- Standby	64.8
Exhaust Gas Temperature: °C	
- Prime	630
- Standby	630

Cooling System

Cooling System Capacity: l	51.4
Capacity without Radiator:	N/A
Energy to coolant and lubricating oil: kWt	
- Prime	113.5
- Standby	128.5
Energy to Radiation: kW	
- Prime 24.1	
- Standby 32.2	
Energy to cooling fan: kWm	14
Radiator Cooling Airflow: m³/min	N/A
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
EP350	77	71	54	37	

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

Air Systems

Air Filter Type:	Paper Element
Combustion Air Flow: m³/min	
- Prime	21.3
- Standby	23.6
Max. Air Intake Restriction: kPa	
-clean filter	2.5
-dirty filter	6.4

The weights are approximate and without fuel.

Alternator model: LSA47.2VS1

Alternator Physical Data

Manufactured for FG Wilson by:	Leroy somer
Model:	LSA47.2VS1
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 <1.5%-on load <2%
Radio Interference:	
Radiant Heat: kW (Btu/min)	
EP350	

Alternator Performance Data: EP350

Data Item	
Motor Starting Capability* kVA	
Short Circuit Ratio** %	
Reactances: Per Unit	
Xd	
X'd	
X''d	

Voltage Technical Data EP350

Voltage	Prime:		Standby:	
	kVA	kW	kVA	kW

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.

