



Features:

• Rotate speed governor: Mechanical governor

Excitation system: self-excited SHUNT

A.V.R model: R220/R438Emergency 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)

• 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

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		Euro Power*
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Output Ratings			
Generating Set Model	Prime Power* Standby Power**		
EP30	30kVA/24kW	33kVA/26kW	

Ratings at 0.8 power factor

Dimensions and Weights				
Model	Length (L) mm	Width (W) mm	Height (H) mm	Dry Weight kg
ED20	2350	1050	1/150	1260

Notes:

*Prime Power

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

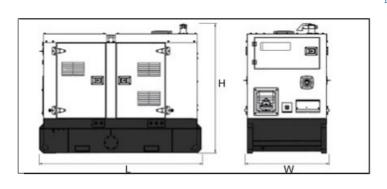
**Standby Power

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 1103A-33G	
Alternator Brand:	Leroy somer	
Alternator Model:	LSA42.3VS3	
Control System:	Auto Gen	
Circuit Breaker Type:	3 Pole MCCB	
Frequency & Phase:	50Hz & 3PH	
Engine Speed: RPM	1500	
Fuel Tank Capacity: litres		
EP30	240	
Fuel Consumption: I/hr (100% Load) - Prime Power -Standby Power	7.1 7.9	





Engine model:1103A-33G

Engine Technical Data		
No. of Cylinders / Alignment:	3 / Vertical in-line	
Cycle:	4 Stroke	
Bore / Stroke: mm	105/127	
Induction:	Naturally aspirated	
Cooling Method:	Water cooled	
Governing Type:	Electronic	
Governing Class:	ISO 8528, G2	
Compression Ratio:	19.25:1	
Displacement: L	3.3L	
Moment of Inertia: kg m²	23.3	
Engine Electrical System:		
- Voltage / Ground	12/Negative	
- Battery Charger Amps	12/65	
Weight: kg - Dry	412	
- Wet	430	

Cooling System			
Capacity with radiator: 1 10.2			
Capacity without radiator: I	4.4		
Power to coolant and lubricating oi:			
kW - Prime	16.0		
- Standby	18.0		
Power to Radiation: kW			
- Prime 5.0 - Standby 6.0			
Power to cooling fan: kW 0.5/0.6			
Cooling Fan Airflow: m³/min 53.0/53.0			
External Restriction to Cooling Airflow: Pa			

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

Performance		
Engine Speed: rpm	1500	
Gross Engine Power: kWm		
- Prime	28.2	
- Standby	31.0	
BMEP: kPa		
- Prime	684	
- Standby	752	

Lubrication System		
Oil Filter Type:	Spin-On, Full Flow	
Total Oil Capacity: I	8.31	
Minimum: I	6.2	
Oil Type:	API-CG4/CH4	
Oil Cooling Method:	Water	

Fuel System				
Fuel Filter T	Fuel Filter Type: Replaceable Element			
Recommended Fuel: Diesel Class A2				
Fuel Consumption: I/hr				
Prime 110% Load 100% Load 75% Load 50% Load				
EP30	7.9	7.1	5.4	3.9

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

Exhaust System	
Silencer Type:	Industrial
Exhaust outlet size:	56mm
Silencer Noise Reduction Level:	N/A
Maximum Allowable Back	8
Pressure: kPa	
Exhaust Gas Flow: m³/min	
- Prime	5.7
- Standby	5.8
Exhaust Gas Temperature: °C	
- Prime	500
- Standby	520

Air Systems		
Air Filter Type:	Dry element type	
Combustion Air Flow: m³/min - Prime - Standby	2.16 2.15	
Max. Air Intake Restriction:		
-clean filter	3.0 kPa	
-dirty filter	6.5 kPa	

The weights are approximate and without fuel.



Alternator model: LSA42.3VS3

Alternator Physical Data		
Manufactured by:	Leroy somer	
Model:	LSA42.3VS3	
No. of Bearings:	Single	
Insulation Class:	Н	
Winding Pitch:	2/3	
Wires:	12	
Ingress Protection Rating:	IP23	
Excitation System:	SHUNT, AREP OR	
	PMG	
AVR Model:	R220, R438	

Alternator Performance Data:	EP30
Data Item	
Motor Starting Capability* kVA	67.7/79.2
Short Circuit Ratio** %	0.45
Reactances: Per Unit Xd X'd X'd X"d	268 16.6 8.3

Alternator Operating Data	
Overspeed: rpm	2250min ⁻¹
Voltage Regulation:	±0.5%
Wave Form NEMA = TIF:	<50
Wave Form IEC = THF:	<2%
Total Harmonic content THD:	No load <3%-on load <2%
Radio Interference:	
Radiant Heat: kW (Btu/min)	
EP30	

Voltage Technical Data			EP30	
Voltage	Prime:		Standby:	
	kVA	kW	kVA	kW
380/220V	32	25.6	35.2	28.16
400/230V	32	25.6	35.2	28.16
415/240V	32	25.6	35.2	28.16

Control System PLC-920

FEATURES

- Parameter configuration via RS-232 serial communication;
- Log last 50 events & alarm information with measured values;
- Statistics records;
- Remote start/stop;
- Speed sensing from alternator voltage or magnetic pickup;
- Configurable 3 inputs and 6 outputs;
- ECU powers, ECU stop, STOP or fuel solenoid selection;
- Automatic transfer switching control and engine control;
- Adjustable start, load and stop timers.

