EURO POWER®

EP Series

EP60

Features:

- Rotate speed governor: Mechanical governor
- Excitation system: self-excited SHUNT
- A.V.R model: R220/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)

- 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**
EP60	60kVA/48kW	66kVA/53kW

Ratings at 0.8 power factor

Dimensions and Weights

Model	Length (L) mm	Width (W) mm	Height (H) mm	Dry Weight kg
EP60	2650	1050	1550	1407

Ratings and Performance Data

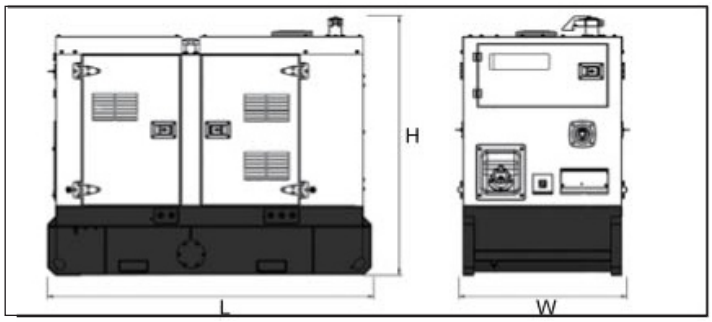
Engine Make & Model:	Perkins 1103A-33TG2
Alternator Brand:	Leroy somer
Alternator Model:	LSA42.3L9
Control System:	Auto Gen
Circuit Breaker Type:	3 Pole MCCB
Frequency & Phase:	50Hz & 3PH
Engine Speed: RPM	1500
Fuel Tank Capacity: litres **EP60**	240
Fuel Consumption: l/hr (100% Load) **- Prime Power** **-Standby Power**	 13.9 15.4

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:1103A-33TG2

Engine Technical Data

No. of Cylinders / Alignment:	3 / Vertical in-line
Cycle:	4 Stroke
Bore / Stroke: mm (in)	105/127
Induction:	Turbocharged
Cooling Method:	Water cooled
Governing Type:	Electronic
Governing Class:	ISO 8528 G2
Compression Ratio:	17.25:1
Displacement:	3.3L
Moment of Inertia: kg m²	25
Engine Electrical System:	
- Voltage / Ground	12/Negative
- Battery Charger Amps	12/65
Weight: kg **- Dry**	420
- Wet	438

Cooling System

Capacity with Radiator: l	10.2
Capacity without Radiator: l	4.4
Power to coolant and lubricating oil:	
kW - Prime	35.0
- Standby	38.0
Power to Radiation:	
kW	
- Prime 10.0	
- Standby 11.0	
Power to cooling fan: kW	1.2/1.2
Radiator Cooling Airflow: m³/min	89.0/89.0
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: kW	
- Prime	55.0
- Standby	60.5
BMEP: kPa	
- Prime	1333
- Standby	1467

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
EP60	15.4	13.9	10.4	7.2

(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	8.31
Minimum: l	6.2
Oil Type:	API-CG4/CH4
Oil Cooling Method:	Water

Exhaust System

Silencer Type:	Industrial
Exhaust outlet size:	56mm
Silencer Noise Reduction Level:	N/A
Maximum Allowable Back Pressure: kPa	10
Exhaust Gas Flow: m³/min	
- Prime	10.1
- Standby	10.4
Exhaust Gas Temperature: °C	
- Prime	557
- Standby	571

Air Systems

Air Filter Type:	Dry element type
Combustion Air Flow: m³/min	
- Prime	3.8
- Standby	3.9
Max. Air Intake Restriction: kPa	
-clean filter	5
-dirty filter	8

The weights are approximate and without fuel.

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Alternator model: LSA42.3L9

Alternator Physical Data	
Manufactured by:	Leroy somer
Model:	LSA42.3L9
No. of Bearings:	Single
Insulation Class:	H
Winding Pitch Code:	2/3
Wires:	12
Ingress Protection Rating:	IP23
Excitation System:	SHUNT, AREP OR
AVR Model:	R220, 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 <3%-on load <2%
Radiant Heat: kW (Btu/min)	
EP60	

Alternator Performance Data:	EP60
Data Item	
Motor Starting Capability* kVA	138/161.5
Short Circuit Ratio** %	0.47
Reactances: Per Unit	
Xd	230
X'd	11.6
X"d	5.8

Voltage Technical Data	EP60			
Voltage	**Prime:**		**Standby:**	
	kVA	kW	kVA	kW
380/220V	60	48	66	52.8
400/230V	60	48	66	52.8
415/240V	60	48	66	52.8

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.