

Powered By

Mahindra

Alternator

LEROY-SOMER

**AUTOMATIC
TRANSFER
SWITCH**



Standard Equipment

⚙️ CANOPY & EXHAUST

- Soundproof canopy
- Large doors allowing easy access for maintenance operations
- Exhaust line protected

⚙️ FUEL SUPPLY

- Automatic shutdown system for low fuel level
- Fuel gauge

⚙️ HANDLING

- Lifting hook integrated

⚙️ BASE FRAME

- Anti-vibrating mounting pads
- Removable drawer fuel tank

⚙️ MODULE (DSE 45 10/20 MK 11)

- The modules monitor engine speed, oil pressure, coolant temperature, frequency, voltage, current, power, and fuel level. They thus provide comprehensive protection for the engine and alternator, along with automatic transfer switch.

⚙️ ALTERNATOR

- AVR Automatic Voltage Regulator
- Impregnation for marine environment IP23

⚙️ DOCUMENTATION

- CE conformity declaration
- User and Maintenance manual

⚙️ STANDARDS

- Compliant with CE Standard
- 2014/30/UE Electromagnetic compatibility
- 2000/14/CE Noise Emission for outdoor use

⚙️ Environmental Conditions

The performance of the Diesel engine is optimal in the fixed generator set during continuous emergency operation, without overload, in accordance with ISO 3046, for a limited duration of 500 hours per year.

The stated performance is valid under normal conditions:

- Ambient temperature of 25 °C;
- Ambient pressure of 1000 mBar (750 mm/Hg);
- Relative humidity of 30%.

The normal ambient conditions for synchronous generators according to IEC specifications are as follows:

- Ambient temperature of 40 °C;
- Altitude of 1000 meters above sea level.

General Information

Frequency / Speed	Hz / RPM	50 / 1500
PRP - Prime Power	kVA	30
PRP - Prime Power ($\cos \varphi = 0.8$)	kW	24
LTP - Stand-by Power	kVA	33
LTP - Stand-by Power ($\cos \varphi = 0.8$)	kW	26.4
Standard Voltage	V	400 / 230
Current ($\cos \varphi = 0.8$)	A	43
$\cos \varphi$		0.8

Fuel Consumption

Type		Diesel
Standard Fuel Tank Capacity	L	115
Fuel Consumption at 75% Load	L / h	5.1
Autonomy @ 75% Load	h	22

Weight and Dimensions

Dimensions (L x w x h)	mm	2000 x 980 x 1280
Weight with Liquids (Excluding Optionals and Fuel)	kg ($\pm 3 \%$)	935

Noise Level (± 3 dB(A))

Sound Pressure Level @ 7 m	dB(A)	65
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Engine

Manufacturer		MAHINDRA
Model		3445 TCIGM C2
Active Net Power	HP	40
Aspiration	Type	Turbo (TCI)
Cylinder	N	3
Bore x Stroke	mm	88.9 x 110
Displacement	cc	2048
Engine Oil Specifications		SAE15W40 CI4
Total Oil Capacity	L	7
Total Coolant Capacity	L	9.5

Cycle

Cycle	Type	4 Stroke
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Alternator

May vary based on stock availability. However, a primary brand will be used.

Manufacturer		LEROY-SOMER
Voltage Regulator (Voltage Accuracy)	$\pm \%$	1
Protection Degree	IP	23
Class of Insulation		Class H

PRP

Net prime power 100%, permissible average load equal to or below $< 80 \%$ no time limitation, plus 10 % overload permissible for 1 running hour each 12 h.

LTP (Limited Time Running Power)

ISO-8528-1 states that a LTP-rated generator set must provide power for up to 500 hours per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers.