

Know-how & Expertise

Leroy-Somer has been providing its experience in the production of electricity aimed at the world of Telecoms for many years.
The world's largest operators trust Leroy-Somer's alternator technology.
Choosing Leroy-Somer means choosing the global leader.

A quarter of the world's generators are equipped with a Leroy-Somer alternator!



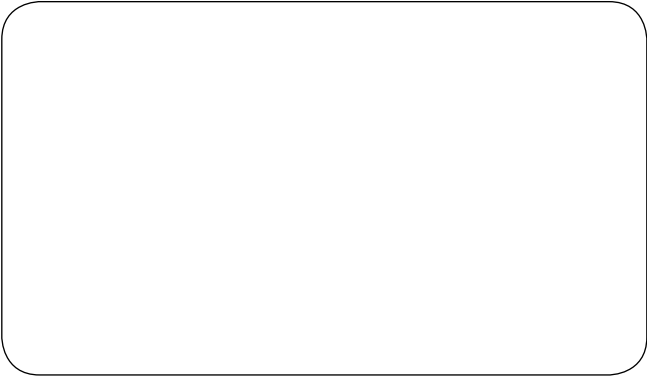
Presence and Service

Leroy-Somer offers you a wide selection of alternators to meet all your electricity requirements around the world. Its network of 470 sales and after-sales service offices is able to assist you 24/7, wherever you are.



www.leroy-somer.com

Contact



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Leroy-Somer reserves the right to modify the characteristics of its products at any time in order to incorporate the latest technological developments.
The information contained in this document may therefore be changed without prior notice.

338 567 258 RCS ANGOULÊME - S.A. au capital de 62 779 000 €



**TELECOMS SOLUTIONS
LOW-VOLTAGE GENERATORS**

8.5 kVA to 2475 kVA

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The world of Telecoms

The requirement: customer satisfaction

Telecommunications have become a vital part of the global economy. Every day telecommunications contribute to commercial and computer exchanges all over the world. In those countries where the power supply network is not always reliable, backup energy with generators has become essential for maintaining communications.

Technologies are more and more efficient but they require the absolute protection of a reliable power supply.

The Data Centers⁽¹⁾ and the BTS⁽²⁾ have critical power requirements. They need to ensure continuous and efficient operation of the network as well as all services offered by the telephone operator.

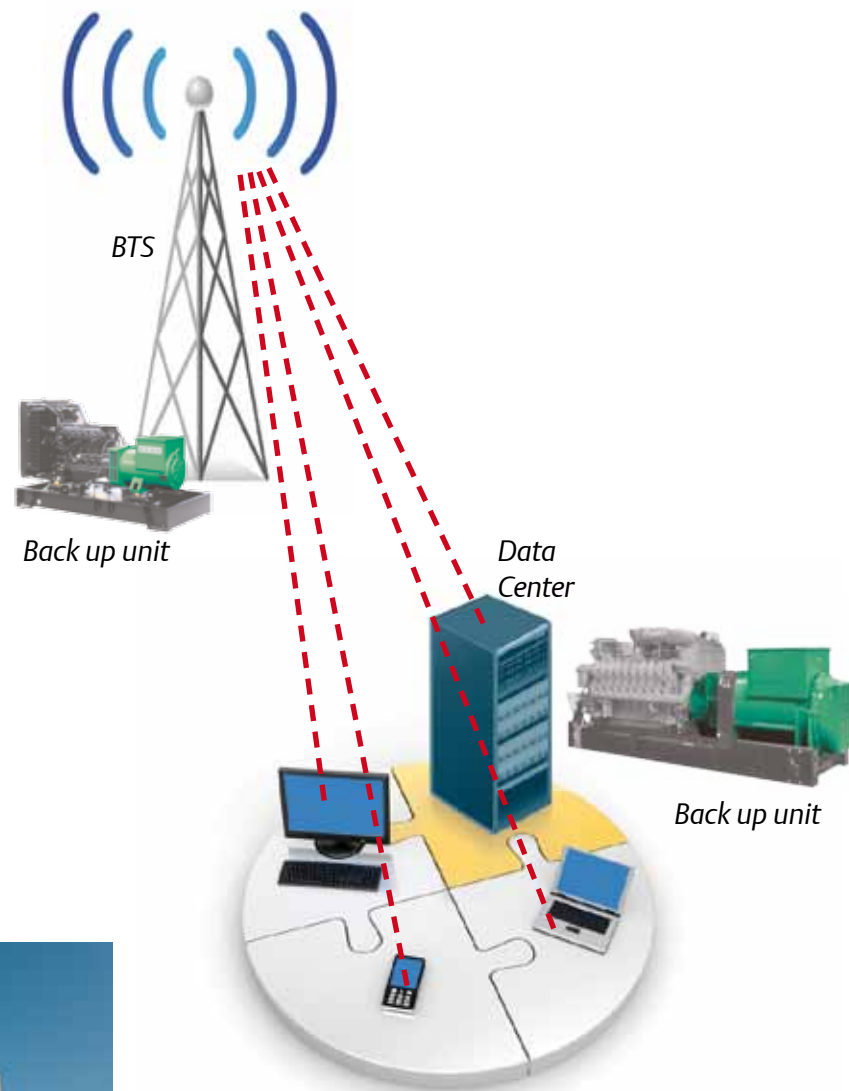
Generators fitted with Leroy-Somer alternators offer reliable solutions that are adapted to backup telecom power.



⁽¹⁾ Data center: data processing centre



⁽²⁾ BTS: Base Transceiver Station (relay emitters)



The Data Centers: The nerve centre of your network

The requirement: maintaining information availability

A Data Center hosts the computer systems and associated components, such as telecommunications and storage systems. It generally includes power supply and stand by communication systems, environmental controls (such as air conditioning and a fire-fighting system) and safety devices.

Data from the Data Center must be accessible to users at all times. As a result, they must be supplied with electricity **without interruption** in order to provide:

- continuous reception and transmission of data
- power to the systems
- power for safety and building protection systems

A Data Center requires access to several dedicated electric power supplies.
In the event of a power cut, back up generator units are used to maintain power for several days.



Leroy-Somer Solution: 420 kVA to 2475 kVA *

Alternators from the Partner range are designed to meet the demands of Data Centers:

- > High efficiency: **energy efficient with reduced consumption**
- > Low reactance: **improved performance with distorting loads**
- > Greater starting capacity: **robust solution capable of supporting high load variations**

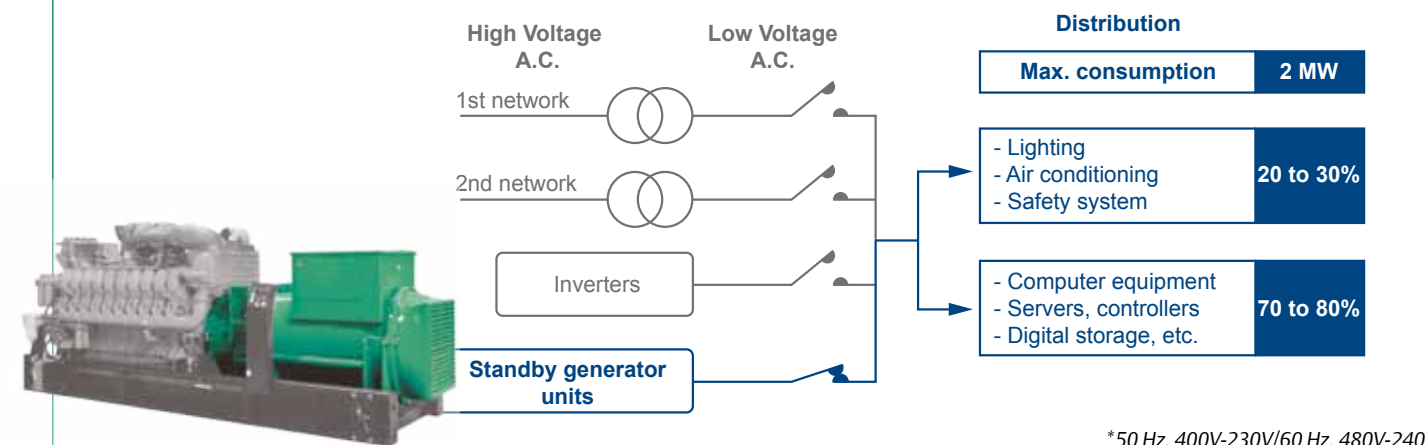
Different ranges to meet your requirements:

LSA 47.2: from 420 kVA to 660 kVA *

LSA 49.2: from 725 kVA to 1000 kVA *

LSA 50.2: from 1145 kVA to 1800 kVA *

LSA 51.2: from 2046 kVA to 2475 kVA *



*50 Hz, 400V-230V/60 Hz, 480V-240V

BTS relay emitters

The requirement: protection of power supply

The BTS provides network access points which facilitate radio access for cell phones in their coverage area (modulation operations, demodulation, error correction encoding, etc.).

The BTS have electronic emitters and equipment (amplifiers, power supplies, etc.) installed nearby. Each BTS provides radio coverage for a certain "cell" whose radius varies from a few hundred metres to a few kilometres. The Base Station Controllers (BSC) control the information to the relay emitters.

A BTS relay requires a continuous power supply.
In the event of network failure, one or more backup generator units are used to maintain power for several days.



Leroy-Somer Solution: 8.5 kVA to 80 kVA *

Alternators from the Partner range are designed to meet the demands of the BTS relays.

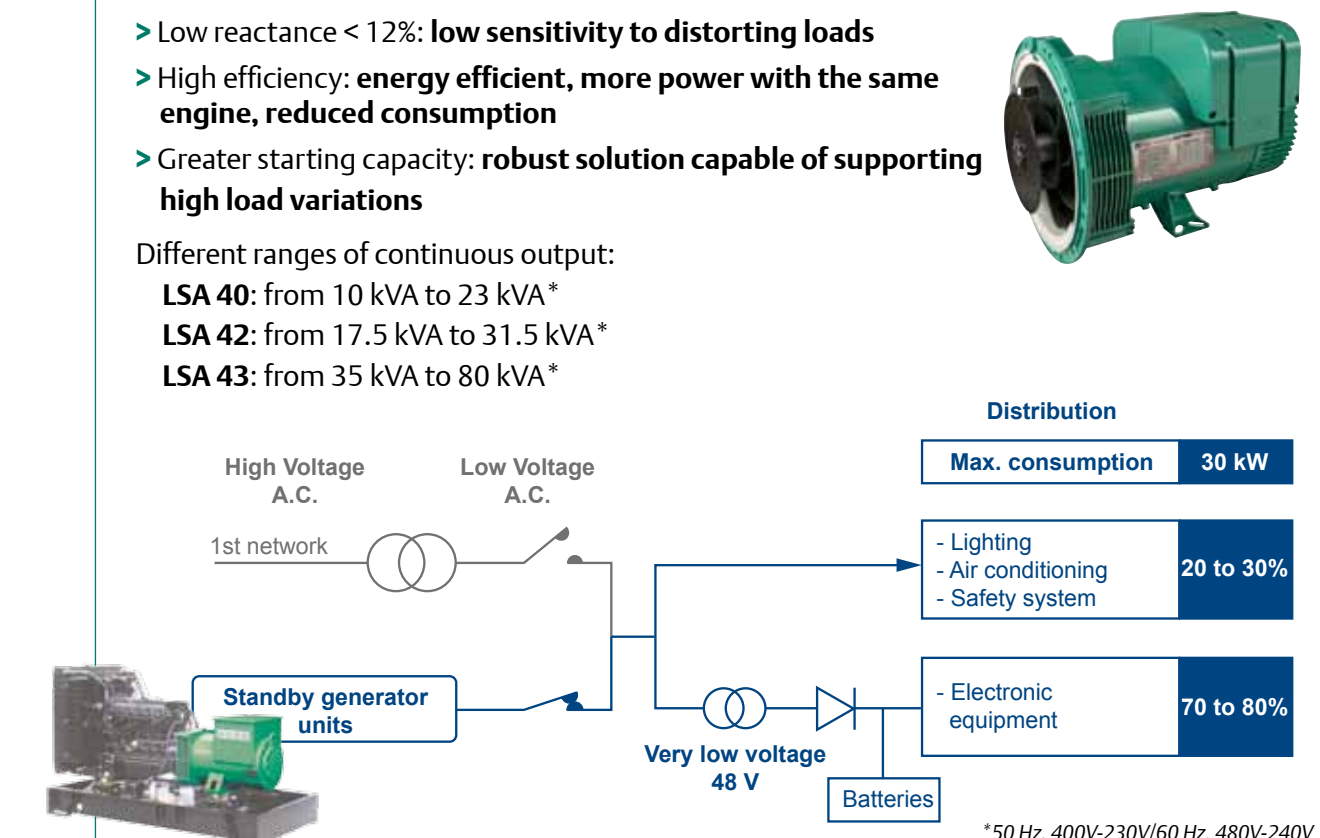
- > Low reactance < 12%: **low sensitivity to distorting loads**
- > High efficiency: **energy efficient, more power with the same engine, reduced consumption**
- > Greater starting capacity: **robust solution capable of supporting high load variations**

Different ranges of continuous output:

LSA 40: from 10 kVA to 23 kVA *

LSA 42: from 17.5 kVA to 31.5 kVA *

LSA 43: from 35 kVA to 80 kVA *



*50 Hz, 400V-230V/60 Hz, 480V-240V