



The good homemade energy



Leonardo System is specifically designed and developed for renewable energy production and storage for home applications. When combined with PV modules and batteries, the System provides the power supply for the home self-sustenance.

The ADVANTAGE of choosing



Significant **SAVING** on electricity bill costs.



Greater **CERTAINTY** on future energy consumptions.



A **SUSTAINABLE FUTURE** for the family and the community.



Simplicity and **SAFETY** for installation without burdens or specific authorizations.



The **AMAZEMENT** that it is possible not to depend on the electricity grid.



Ever-present energy (**ANTI BLACK-OUT** system).

Several PERFORMANCE level

Leonardo System is modular and this mean that is possible to choose the most suitable version for domestic energy needs. It has 4 MPPT independent inputs (max 1KWp each input) so it is flexible and modular over time.

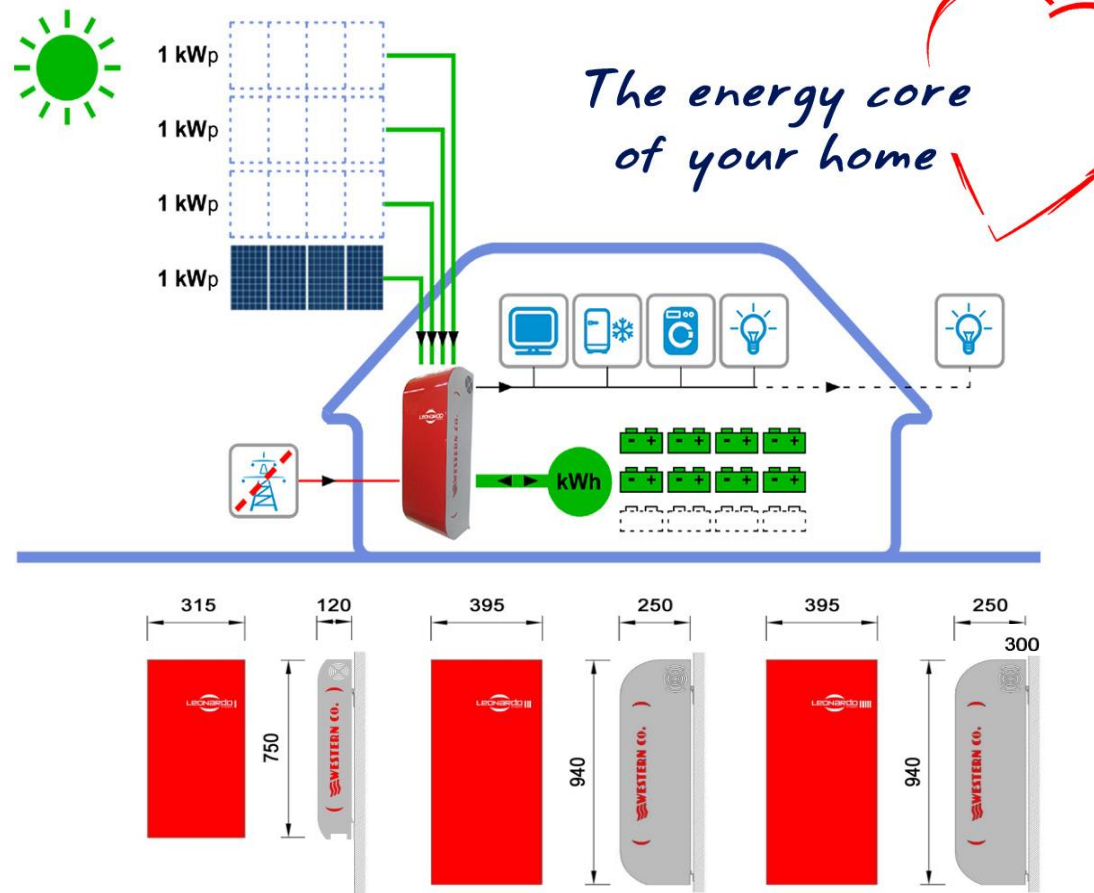
- **HIGH EFFICIENCY**
- **MAXIMUM SAFETY**
- **5 YEAR WARRANTY**



PV P - Pout - Volt
1KWp-1500-24

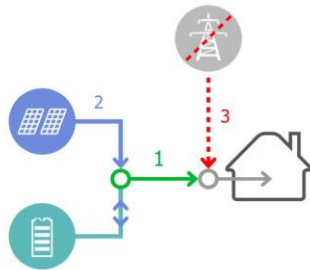
PV P - Pout - Volt
4KWp-3000-48
4KWp-5000-48

PV P - Pout - Volt
8KWp-8000-48



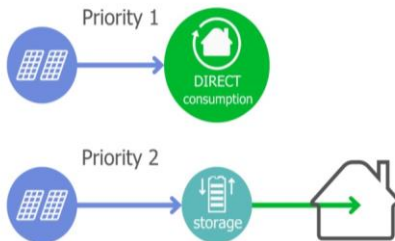
The highest CONVERSION EFFICIENCY

The **A B C.** to understand the **smartness** of Leonardo System:



A) Parameters to define the global efficiency of the system are:

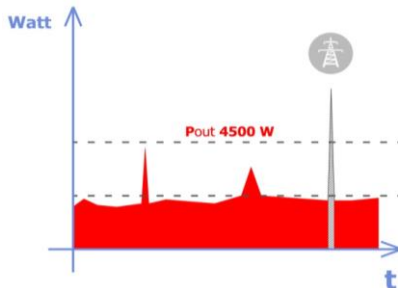
- 1) Inverter power source -----> 95%
- 2) Battery recharge from photovoltaics -----> 97,2%
- 3) Safety power source from the grid -----> 100%



B) Logical priority of Leonardo System allows to improve the global efficiency of the system

Priority no.1 -----> direct self-consumption of the energy produced from the PV module without battery storage.

Priority no.2 -----> energy storage in battery that is produced by PV modules for future usage.

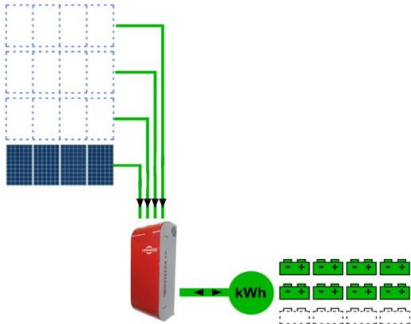


C) To ensure the battery integrity and to have a constant energy reserve at home, it is possible to switch to the electric grid only in case of peaks in energy needs.

The advantage of an OPEN SYSTEM



*Free to choose
the PV module*



*Free to choose
the kind of battery*

Leonardo System is designed as an “open system” that is able to manage:

- Any kind of PV module
- Any kind of battery such as: AGM, GEL, OPzV
- Any kind of monitoring system

This feature has great importance because allows to choose always the best product on the market.

From Western CO. point of view you start to save energy when you're aware of the consumptions and of the production of renewable energy.

Using an optional datalogger on the Leonardo System is possible to monitor through a tablet device or an APP on the smartphone the consumptions and the production of renewable energy in a very simple way.

In addition, thanks to this operation, is possible to optimize the energy self-consumption increasing significantly the return of investment.



SAFETY and WARRENTY



Leonardo System is specifically designed for household applications and this is evident because of:

- Low operating voltage for the batteries (48V).
- High quality terminals.
- Location of the terminal so to facilitate the installation and ordinary maintenance.
- Protections and earthing compatible to the existing electric domestic installations.

The long standing experience of Western CO. in the industrial electronics sector and stand alone PV system is reflected in safer, more efficient and affordable products.

This experience, acquired in more than 25 years in the PV field, contributed in a significant way for the development of the product so to obtain the best solution from both the electronic and mechanical point of view. Quality in components, in the materials and their integration, make the Leonardo System one of the best product in the market.



from Western CO. experience

Leonardo System is designed and manufactured by Western CO., an Italian company with more than 25 years of experience in the PV market and in the industrial electronics.

Western CO. products are all over in the World and satisfy the need of an heterogeneous customers because of their culture and economic potentiality.

Western CO. solutions, thanks to relevant investments in R&D, reached the maximum level in quality and reliability so to achieve reliance and loyalty, improving the quality of life today and in the coming years.

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