HYBRID SYSTEMS

New Ways of Energy

erga

HS HYBRID SYSTEMS

OPERATING OPTIONS FOR ENERGY MODULE ERGA

This system is versatile and capable to optimize and reduce the fuel consumption.

There is a genset and a hybrid module inside: an inverter + battery charger and battery systems to energy storage.

The main advantages in this system are:

- Fuel savings (up to 50%)
- Lower atmospheric contamination
- Silent system or reduced noise level
- Savings in maintenance
- Connection to green energy (wind turbines, solar panels)

HYBRID MODULE - ERGA

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HYBRID SYSTEMS

The energy module ERGA, is a hybrid system developed to ensure consistent and efficient production of electricity in places where wiring is not done or if there are frequent voltage failures.

Power module consists of ERGA Power and batteries, as well as optional support containing updated sources of energy such as solar panels and wind turbines.

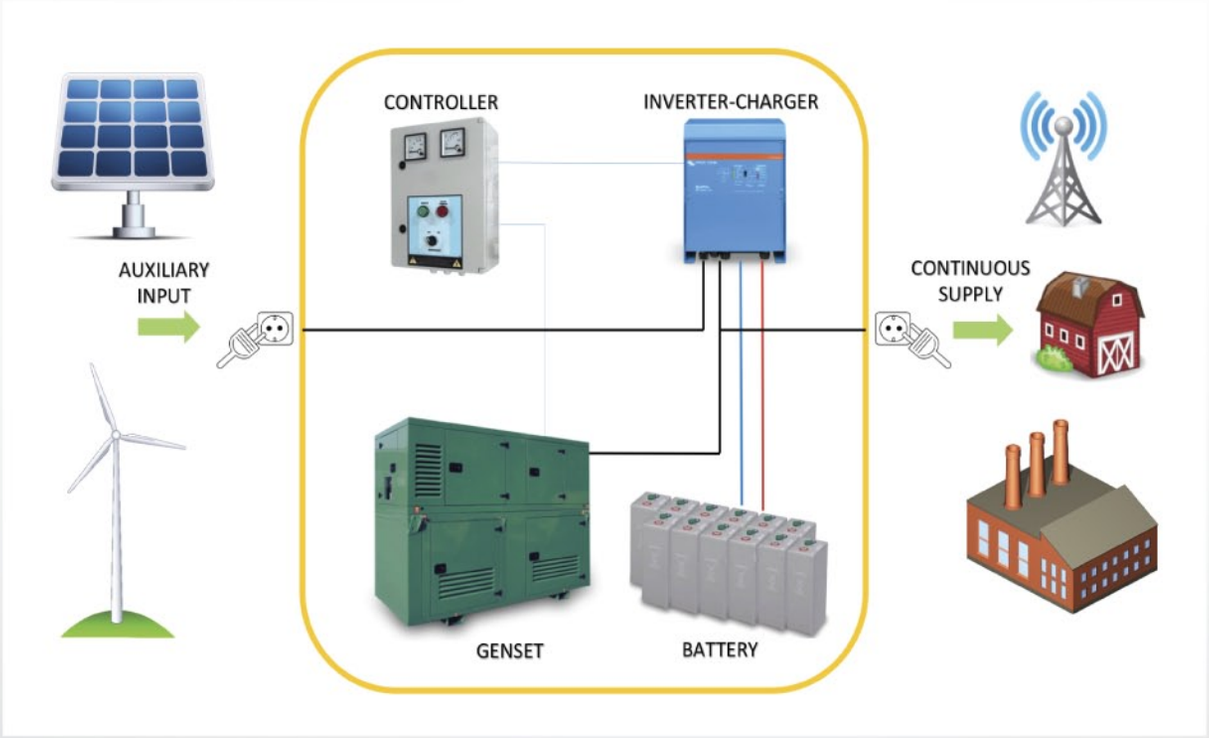
In addition to the above, the power module also includes the following elements:

- Chassis with stationary batteries of high performance.
- Inverters, Charge.
- Electronic equipment that supports both the charging level of the battery and diesel generator.
- Diesel generator operating at 1500 R.P.M., depending on the model.
- Noise protective equipment, with thermo-acoustic insulation, designed for outdoor use, and designed.

For maximum lightweight transportation and installation of the module. In many developing countries (as well as in developed countries with large territories) there are countless homes, farms, health centers, schools, telecommunications systems, construction of buildings, missions, humanitarian assistance and other objects located in remote places. Provision of electricity to these places, in most cases, technically or economically feasible, and the creation of an independent power systems, usually attracts a large number of problems, which ultimately cost sometimes more expensive than buying a tried and tested system such as power modules ERGA.

Functioning of the energy module ERGA is fully automatic. Thanks to efficient electrical equipment, the hybrid system is started at any time from the most appropriate source of energy, optimizing fuel consumption and exhausts without interrupting the power supply. When the needed energy is equal or less than the energy supplied by sources or battery, ERGA modul works without starting genset.

When the power module ERGA, switches on the power plant, a bypass occurs by the way that all the necessary energy is extracted from power plant, avoiding the need to use all the energy stored in the batteries. While the power plant running, the generated energy charges the battery, and as a result, we obtain a high energy performance and fuel economy.



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ERGA HYBRID GREEN INNOVATION

GENSET PRODUCTS

As needed, may be available following modification of the Energy Module ERGA:

- Starting and Stopping Power on the necessary hours.
- Starting and Stopping Power via mobile phone.
- Connection for solar panels.
- Connections for a wind turbine.

Advantages of the Energy Module ERGA

- Single and three-phase compact (all in one) hybrid system.
- Ability to generate power through two power sources.
- Fully automatic system that allows to avoid manipulation.
- Lowering the cost of maintenance up to 80%.
- Increase engine life and service.
- Fuel savings of up to 80% (and even more when using the updated system of energy supply).
- Extending Power efficiency up to 300%.
- High autonomy. Power module is equipped with a large volume capacity.
- Easy to install. ERGA Power module can be used in harsh climatic conditions that is the reason for the

low cost of installation.

- Maximum reduction of CO2 exhaust to atmosphere.
- Easy to transport.

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