

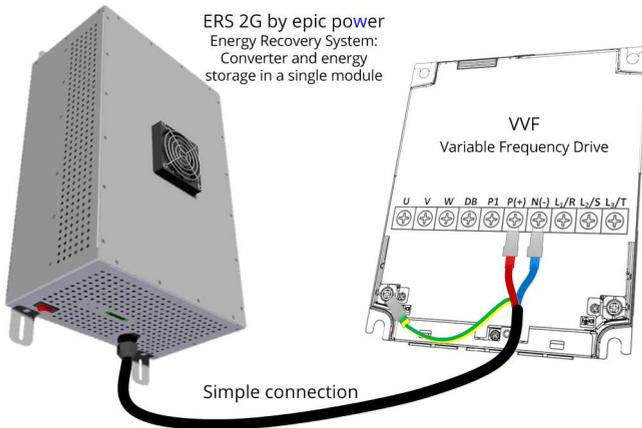
# plug&save



## epic power

plug&save systems by epic power offer a better alternative to regenerative drives. They store all the energy generated by the motor that would be otherwise wasted in the braking resistor. It only requires a very simple connection to any VVVF drive.

Our systems store the energy in ultracapacitors and later this energy is returned to the motor when required. Therefore, the energy consumed by the motor is reduced up to 65% and the VVVF stand-by can be reduced 100%.



It is also possible to connect commercial solar panels that allow for 100% reduction of the energy consumption of the motor

## ADVANTAGES

- Very simple installation in any VVVF drive.
- No maintenance needed.
- Acquire new clients offering elevators with lower energy consumption and a higher rated efficiency class.
- Retain current customers offering this addition to already installed elevators.
- Incorporate the latest technology in the field.
- Not even a failure in the system would affect the normal operation of the elevator.
- Be able to participate in requests for bids where energy efficiency measures are well considered, with no need to modify the current installation.

## WHAT IT OFFERS TO THE END USER

- To have an elevator that consumes less.
- Assessable monetary savings. The energy stored and reused can be clearly saved as opposed to regenerative systems that the final use of the returned energy is unclear.
- No additional maintenance.

# ERS 2G

## plug&save

ERS 2G system stores and reuses the energy that is otherwise is wasted in the braking resistor. Better than regenerative drive

## Advantages

Be able to offer, with a simple add-on, more efficient sustainable elevators with a higher VDI and ISO 25745 rating

## For the end user

Less energy consumption with assessable monetary savings

## Installation

Very simple connection to VVVF drive. New or existing elevators

## Technical features

6300 kW power and 60kJ energy storage

## Our company

Energy storage system to enhance any lift efficiency

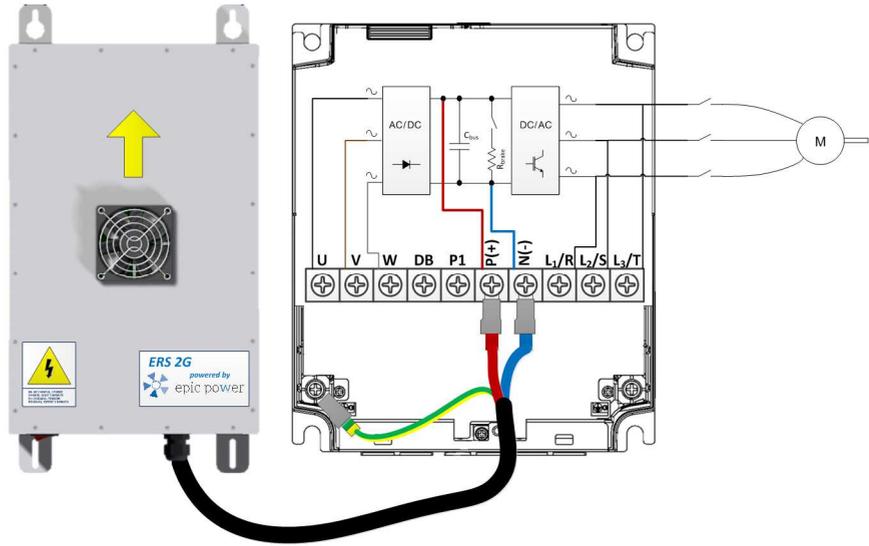
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## HOW TO INSTALL

- Turn the driver OFF
- Verify that the DC bus the voltage has dropped to at least 50V or less, generally P(+) and N(-)
- Make sure that the ERS system is turned OFF
- Connect ERS with drive as shown in the picture to the right
- Turn ON the driver
- Wait for a few seconds and then turn ON the Energy Recovery System.



NOTE: These are simple guidelines that do not substitute the Instructions Manual. Please read the Manual in full before installing the system. A braking resistor has to be installed as usual.

## TECHNICAL FEATURES OF PLUG&SAVE SYSTEMS

	Main features
Nominal power	6.300 W
Target elevator motor power	One module serves motors from 0 to 15kW nominal power. For higher power motors ERS' parallelization is possible.
Nominal energy (scalable)	60.000 Jules This energy elevates 35m. a fully charged 6 pax. lift
Efficiency	Up to 98%
Solar panel connectivity	Available with solar panel connectors (*)

(\*)ERS 2G Solar+ version is available to connect with solar panels. No extra electronics are needed. With this option, savings are much higher.

## OUR COMPANY



- ❖ epic power is your power electronics partner for energy efficiency and energy storage solutions for elevators
- ❖ We can adapt our systems to your needs.
- ❖ We take your ideas as our challenges

epic power TEAM