

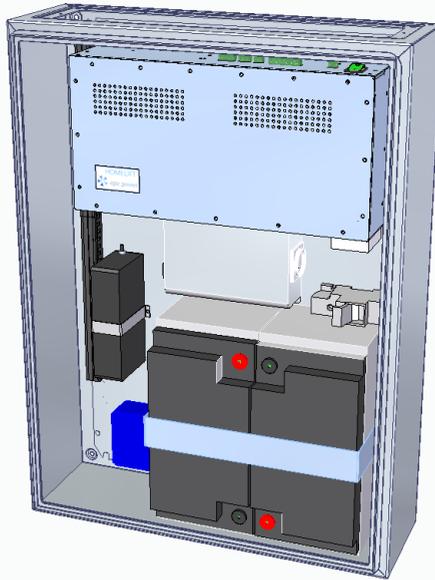
# Homelift Intelligent Supply System



Homelift Intelligent Supply System, HISS, is an electronic system that can completely feed a homelift elevator from a low-peak power (230W) single-phase mains connection. It also enables the elevator to be used a very large number of trips in case of blackout.

Furthermore, the system reuses the energy generated by the motor, thus reducing the overall consumption up to 55%. It can be installed in new or existing home lifts.

It can also include a connection to commercial solar panels thus transforming the elevator into a completely self-sufficient one.



## ADVANTAGES

- Very low energy consumption and very low peak power
- No need to include any UPS system as the elevator will continue to operate for a large number of trips (in the order of hundreds, depending on height and load)
- Option to offer solar powering of elevator
- Retain current customers offering this addition to already installed elevators.
- Attract clients that are environmentally concerned
- Incorporate the latest technology in the field

## WHAT IT OFFERS TO THE END-USER

- Energy savings up to 55% of the motor consumption due to the regenerative feature
- Normal operation for a long period of time during blackout
- Peak power of the electrical contract may be reduced. This typically implies some savings (country and area dependent)
- Solar supply available for the elevator with storage, which could reduce the consumption of the elevator to zero (depending on the number of panels, location and month)

# HISS

## SUMMARY:

### What is it?

System that feeds a home lift from 24V batteries and/or solar panels

### Advantages for the end user

Large number of trips after blackout. Very low consumption even zero with solar panels. Very low peak power. Reuses braking energy.

### Installation

Less than one hour in new or existing elevators

### Technical features

Power consumption 230W or less. Up to 100 trips in case of blackout. 24V batteries replacement in 4 years or more. Elevator operates as usual

### Our company

Intelligent energy supply solutions for elevators

[www.epicpower.es](http://www.epicpower.es)

[info@epicpower.es](mailto:info@epicpower.es)

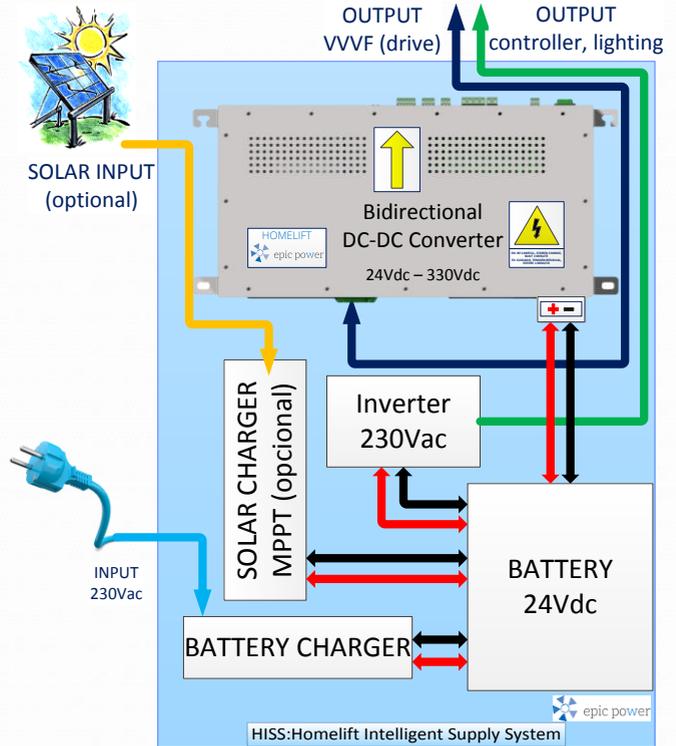


epic power

## HOW TO INSTALL

- Connect the HISS main unit to the VVVF driver's terminals P(+) and N(-) with the cable provided with the system.
  - o P2S is in charge of powering the VVVF so there is no need of a mains connection.
- Connect the battery module to the HISS unit.
- Plug HISS unit to a standard single-phase mains socket.
- Plug all the other remaining elevator systems (control, lights, door operators, brakes, etc.) to the single-phase (230V) socket output of HISS.
- Turn ON the HISS. The system will be ready to operate in a few seconds.

NOTE: These are simple guidelines that do not substitute the Instructions Manual. Please read the Manual in full before installing the system.



## PLUG&SINGLE-PHASE TECHNICAL FEATURES

Maximum input power	230 W
Number of trips (in blackout)	More than 100
Battery voltage	24V (2 x 12V)
Nominal output power (DC output to VVVF driver)	2 kW
Nominal 230Vac output power	400 W / 700 W
Photovoltaic module (recommended)	One or two in parallel (72 cells)

HISS system does not require the modification of any system of the elevator. A braking resistor has to be installed as usual.

Batteries are a commercial reference and can be changed easily. Estimated duration of batteries is about four years.

HISS Solar+ version is available with connectors for commercial solar panels. With this option, no extra electronics are needed in order to fully power an elevator with solar energy.

## OUR COMPANY



**Epic Power Converters, S.L.**  
 CIF: B99349623  
 Calle de la Encina, 6  
 50012 - Zaragoza (SPAIN)  
 info@epicpower.es  
 www.epicpower.es

- ❖ epic power provides solutions for intelligent energy supply of elevators, new or existing.
- ❖ With experience in power electronics, we can adjust our systems to match specific needs.

