



Epic Power Converters, S.L.
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AN019

This document need to be fulfilled to verify the accessibility of the KERS system to the current elevator installation and be able to estimate the savings that can be achieved

Revision

V1.2
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Application Note - AN019

Information for validity check KERS – ERS 2G

Introduction

The KERS has a maximum power and energy storage limitation to achieve the maximum savings possible in different kind of elevators. In addition, the system is designed to put in parallel as many systems as needed.

This document purpose is gathering all the information to ensure that the KERS can be properly installed and that energy savings can be achieved. The client needs to fulfil the following information about the elevator where the system needs to be installed:

- ✿ Maximum Load [kg]
- ✿ Nominal speed [m/s]
- ✿ Total travel distance [m]
- ✿ Type of building (Hospital, offices, hotel, public building....)
- ✿ Frequency drive reference (This is used to verify the access to the DC bus)
- ✿ Electric Motor type (geared or gearless?)

Epic power will provide an estimation of the energy savings to be achieved in that specific elevator. That work will be done by epicpower in the first iterations with a client. After that, selection tables and tools will be provided to the client to make them able to estimate the savings themselves.