



POWERGENERATION IN ITS MOST ECONOMIC FORM

Hitzinger's synchronous alternators fulfill highest demands both technical and qualitatively: the flexible overall concept allows a tailor made solution for every application: Regardless if industry, hydropower, marine and off-shore applications are needed: in every configuration and design Hitzinger alternators warrant individual power supply solutions.

Their dependability and enormous reliability, combined with a high level of economy, guarantee advantages which justify the excellent reputation of the alternators.

Systems for Various Applications

Hitzinger alternators are offered for different purposes:

- [Railway](#)
- [Marine](#)
- [Hydropower](#)

Exact Dimensional Design and Calculation

Hitzinger software allows the individual dimensional design of all components and their joints. To rule out damages caused by short circuit, short interruption or mal-synchronisation the software regards torsional vibrations both for normal case and error case which leads to highest possible safety.

Enormous economy

Economy derives from e.g. low-loss conversion from primary into electrical energy and by a flexible and practically oriented design of the alternators. The Hitzinger specialists by the way provide efficiency by

- high efficiency
- power factor regulation
- regulation of reactive power
- adaption of efficiency curve to the cases of operation
- optimization of nominal voltage
- no wearing parts (except bearings)
- avoidance of transmission losses and error sources by adaption of number of poles to the nominal speed
- price worthyness

Advantages

AVAILABLE

Hitzinger alternators are designed to work being out of operation costs much money. Preventive actions are taken by means of a number of protectors and surveillance devices. Hitzinger alternators are robust, low maintenance and most of all designed for continuous operation.

FLEXIBLE

The specialists of Hitzinger supply tailor made alternator solutions. Computer aided design and computer aided engineering provide a flexible design and implementation, both regarding technique and a vast number of variations.

RELIABLE

Hitzinger manufactures reliable and fail safe alternators, which you can rely on. Continuous availability is proofed by:

- reliable designed components
- robust design
- shock and vibration resistant
- tight quality control
- patented regulation system for
- high short circuit current
- high resistance against
- environmental impacts by
- additional isolation.

COMPACT

One of the outcomes of the intensive research of Hitzinger is the compact design of the alternators. The special design saves enormous space and practically this means:

- lower building efforts
- less components
- lower investment costs

LOW-EMISSION

The very low influence of the environment is a further significant advantage of the synchronous alternators of Hitzinger:

Noise suppression: all relevant standards up to MIL standard.

Silent operation and low noise emission: achieved by exact balancing and high precision manufacturing.

Low stray field alternators: are built by Hitzinger specialists for special applications including equipment to be able to measure magnetic fields up to 1/10.000 of earth field.

**PERFORMANCE OVERVIEW**

**Synchron
up to 1000 V**

**Synchron
up to 6600 V**

**Asynchron
up to 1000 V**

Leistungsbeschreibungen:

>> [Synchron Niederspannung \(0.06 MB\)](#)

>> [Synchron Mittelspannung \(0.06 MB\)](#)

>> [Asynchron Niederspannung \(0.06 MB\)](#)

