

POWER. AT THE RIGHT MOMENT.

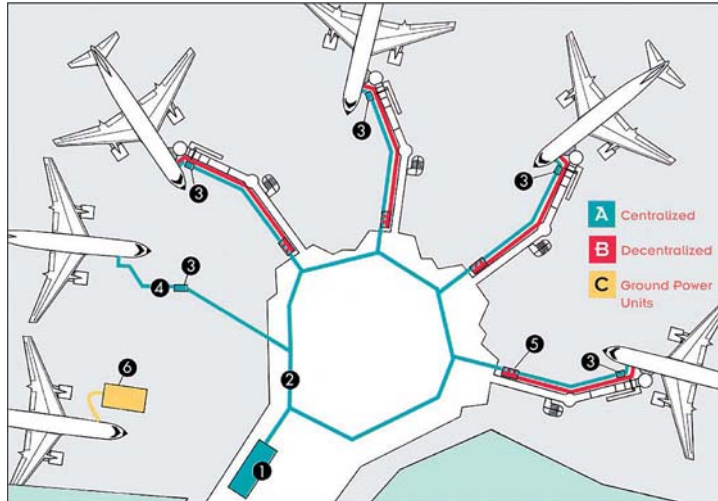
# hitzinger

## AIRPORT GROUND POWER SYSTEMS





## FAMOUS AIRLINES AND AIRPORTS – PREFER ONLY THE BEST



- 1) Central power room with:  
Frequency converter  
Motor panels  
400 Hz Distribution, see picture 1
- 2) 400 Hz Cable
- 3) Gate Cubicles, see picture 3

- 4) Cable Carrier, see picture 2
- 5) Decentralised Converter, see picture 4 and 5
- 6) Mobile Ground power unit, see picture 6

**WHEN THE COSTS SHOULD DECREASE ...**  
... but environmental protection and safety should increase, then every airport, every airline and every aircraft manufacturer can be sure to achieve this goal with HITZINGER. The 400 Hz ground power supply systems are much less expensive than using the auxiliary power unit of the aircrafts. HITZINGER helps to keep the costs down. Since the auxiliary power unit does not have to be used, costs, risk of accidents, noise and exhaust gases can be avoided or reduced. And not to forget - HITZINGER Systems are simple to use and are always reliable in operation.

### SERVICE AT IT'S BEST

- Project engineering
- Plant planning
- Financing
- Mechanical and electrical installation
- Commissioning
- Training
- Customer service
- Service and maintenance
- Spare Parts supply



**HITZINGER. THE SERVICE COMPANY.**



# GROUND POWER UNITS

## A PERFECT RESULT OF HITZINGER KNOW HOW

Our new GPU - a powerful progress in technology, reliability, efficiency and design. With the development of our new ground power unit, our engineers were driven by the latest requirements of the international airport business worldwide. Our new GPU has been developed in conjunction with leading airlines and major Ground Handling Companies all over the world as well as with our high experienced engineers in our design department and test field. Design, reliability, user friendliness and efficiency were our main targets. The result is a GPU with lowest cost, improved handling and highest user friendliness. Innovative material, latest diesel technology, modern processing technologies and last but not least ingenious engineering, where all needs of our customers were considered, give our GPU in a range of 40-180 kVA a vital edge. Before we have launched our GPU, excessive testing and optimisation program with a strong feedback loop from our customers took place. Because of this extensive testing and engineering program, we could realize our courageous targets. A very low noise level has been achieved by the compact arrangement and a modular sandwich sound isolated canopy. This sandwich design with oversized flaps guarantees a perfect access to all components and makes it very easy to maintain the unit. From the prototype to our master piece it was a long hard stony way, but the success on the market justifies our action.



## COST EFFICIENCY

Due to the fact that the fuel prices are raising up all over the world, we think that lowest operation cost is the most important issue for modern managed airports or handling companies. Because of our low speed diesel version and the highest efficiency of our 400Hz alternator, we can guarantee you that our new HITZINGER GPU is the most profitable and economical GPU on the market.

## INDIVIDUAL SYSTEM

Our customers have widely varying wishes and needs, this is why we provide options for you which will help you to select your optimum GPU and enable us to deliver tailor-made GPUs according to the needs of our customers at a fair price. And last but not least for our environment and our children, all our units can be optionally equipped with Diesel particle filters (DPF).

## SERVICING

One of our goals was to build a low-maintenance and easy-to-service GPU. A central service point, that is accessible through the enclosure doors, substantially shortens the servicing time and facilitates servicing itself. Only the diesel engine needs to be serviced, and an automatic oil refilling (option) can considerably extend the service intervals. A service switch enables you to execute and record the specified inspections as per DFS 400 and ARP 5015 by yourself.

Type	KVA	LxWxH	Weight - low speed
GPU28VDC	600/2000 A	2840x1600x1700	2000 kg
GPU75MDE18	75 KVA	3760x1710x1560	3100 kg
GPU90MDE18	90 KVA	3760x1710x1560	3100 kg
GPU120MDE18	120 KVA	3760x1710x1560	3300 kg
GPU140MDE18	140 KVA	3760x1710x1560	3350 kg
GPU180MDE18	180 KVA	3760x1710x1560	3350 kg





## CENTRALIZED SYSTEMS



HITZINGER has an international reputation for quality, reliability, design and experience on centralized 400 Hz systems which have been installed in famous places like Airbus (Toulouse), Hamburg, London (Stansted), DHL (Leipzig), Vienna, Rome, Frankfurt, Kuwait, Saudi Arabia, etc.

HITZINGER has a proven solution for fixed 400 Hz systems in rotary version with a total system output up to 1600 KVA with all necessary features like:

- 400 Hz distribution
- Line drop compensation
- Failure recorder
- Visualization
- Cable hoist
- Crocodiles (cable carriers)

## DECENTRALIZED SYSTEMS

### STATIONARY CONVERTERS: TECHNICAL LEADERSHIP MADE BY HITZINGER

HITZINGER converters distinguish themselves not only in their technical design, but most of all with their almost proven reliability. Hitzingers engineers ensured an extremely robust, wear- and maintenance-free design of the rotary converter.



### FEATURES

- Ratings: 10 - 315 KVA
- Converter and switch panel integrated in a soundproof canopy
- Guided Control system
- Safe operation and full protection/ supervision by microprocessor control
- Easy access for service
- Lifetime > 25 years
- High reliability
- MTBF > value 50000 h
- Low harmonic content - less than 1,5 %
- Radion interference suppression
- Failure recorder
- Interface
- Design acc. to DFS 400

### OPTIONS

- Other input voltage and/or frequency than 400 V, 50 HZ
- Second output (standard above 90 KVA)
- Remote control box
- Transformer start 1,5 x In



# DECENTRALIZED SYSTEMS

## OPERATOR CONTROL AND DISPLAY

The Powercon is our latest operator interface for control and monitoring. Ease of operation through a simple menu-driven approach, which ensures fast and failsafe control, this controller is universally employed through out our range optimised with the input of our customers. The multitude of confusing instruments and push-buttons is a thing of the past with the Hitzinger GPU. A trilingual changeover display, automatic service display, event recorder and remote status monitoring via modem are state of the art.



Mobile Frequency Converter  
50/400 Hz. 10 – 40 KVA  
or mobile 28 VDC unit 600/2000A

## MOBILE CONVERTERS

### FEATURES

- Ratings: 10 - 200 KVA / 400 Hz, 600 - 2500 A / 28 VDC
- easy to handle
- lifetime over 25 years
- maintenance free
- suitable for indoor and outdoor operation
- lowest noise level



Mobile Frequency Converter 50/400 Hz. 60 – 200 KVA

## HITZINGER ADVANTAGES

- guided control system in your language
- simple operation suitable for non-trained operators
- failure recorder with indication of failure, date and time
- interface for remote check
- GPU is maintenance free except diesel engine
- automatic service indication
- service switch for self-test
- automatic oil refilling system (optional)
- excellent access for service and maintenance
- solid rubber tires
- longer life time because of 1846 rpm
- extremely low sound level
- high reliability



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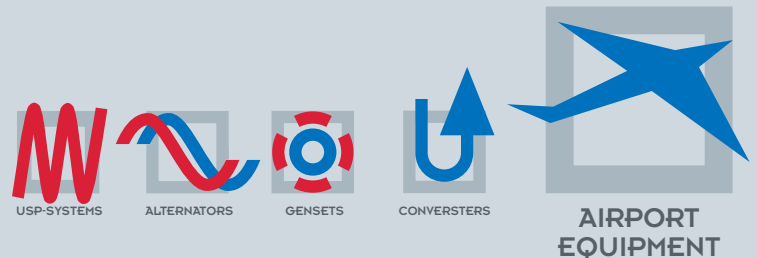
THE POWER COMPANY.

hitzinger

**A PERFECT RESULT OF HITZINGER KNOW HOW**

Hitzinger not only designs, manufactures and delivers GPU's of the highest possible quality, but also offers services that cover all demands starting with consulting, project management, planning and installation, staff training and maintenance.

Hitzinger offers all services and supplies all switching-, control-, regulation-equipment, optimised to your specific demands.



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