



CASE STUDY



grid | Xtreme VR

1 | Challenge : **Keeping international sporting events live**

In order to be well prepared for the upcoming Football World Cup, an operator of a data centre in Amsterdam needed a reliable battery system for grid stabilisation as quickly as possible.

7.30 p.m. on a Friday night – you excitedly turn on the TV and wait for the kick-off of an international football match. The game starts, the tension builds, and the ball rolls towards the goal. Suddenly the lights go out for a few seconds – it's a temporary power cut. You can't see anything. What happened? And much more importantly: was a goal scored?

These are questions that you don't have to ask yourself, thanks to a UPS system (Uninterruptible Power Supply). In the case of a power cut or temporary fluctuations in the mains, it maintains a secure supply of power. And it does that 24/7.

Especially during international sporting events, mains fluctuations and spikes in demand are quite common. Not only do you have many households switching on their televisions at the same time, you also have people accessing the live stream in restaurants, in the stadium itself and at public screenings in numerous cities. And this happens all over the world at the same time.

This is why broadcasters rely on an uninterruptible power supply behind the scenes, in the form of batteries. In the event of peak loads, the batteries supply the power required, maintaining the mains voltage and thus preventing a blackout.

Securing live broadcasts
at major events

Uninterruptible power supply
against network fluctuations

Installation of a battery station
in a data centre

24/7 energy availability
for critical infrastructure



Marcel Birkhölzer
HOPPECKE Reserve Power

„The project shows me the importance of our products in everyday life. Whether for football matches, luggage handling at airports or the emergency power supply in hospitals.“

50% longer service life
of up to 15 years

Reduced costs
through reduced air conditioning

99% recycling efficiency
supports sustainability

Fast availability
and 6 weeks delivery time

2 | Solution : **Fast availability and long service life**

3.456 blocks of HOPPECKE’s grid | Xtreme VR safeguard the broadcasting of international football matches across Europe.

The batteries are set up in the heart of Amsterdam at an international operator of a data centre and provide electrical power if the need arises. The required UPS system, including the batteries, was installed and connected in October, in collaboration with a longstanding business partner and UPS manufacturer.

Two factors were especially crucial in the decision to use the grid | Xtreme VR: the rapid availability of the batteries and their long lifespan.

The data centre operator required a minimum lifetime of ten years for the batteries. This is a timeframe that is far exceeded by the HOPPECKE grid | Xtreme VR. Thanks

to its special design and the high purity of the lead used in it, its expected service life is an average of 15 years at a temperature of 20 degrees Celsius. This is a gain of 50% over conventional standard products. Moreover, the batteries can be used within a higher temperature range than standard technologies, which contributes to air conditioning cost savings.

The batteries scored high marks for their delivery time as well: they were ready to be installed in Amsterdam within six weeks of the order being received.

Another advantage the customer appreciates of the pure lead batteries is their sustainability. With a recycling efficiency of 99% and a state-of-the-art production process, the batteries help the customer to reach his ambitious environmental goals.

Key Benefits

- Long-life and readily available batteries ensure data centre operation
- State-of-the-art manufacturing process supports the customer’s environmental goals
- Higher operating temperature range reduces air conditioning costs
- Required minimum service life of 10 years exceeded with 15 years of use

3 | Products :

► **Batteries: grid | Xtreme VR**



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