

A close-up photograph of a blue industrial robotic arm with a white gripper, positioned over a large blue cylindrical component. The background is a blurred industrial setting with warm lighting.

**GENEREX**



WHITEPAPER

# NEW DOUBLE-FASTON

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- ◆ Precise battery monitoring ◆ Stable measurement
- ◆ Fewer false alarms ◆ Cost-effective ◆ Easy retrofitting

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# MAXIMUM PRECISION

INNOVATION  
FOR PRECISE  
BATTERY SUPER-  
VISION AND EASIER  
RETROFITTING.

## **A tip from the US pointed us in the right direction!**

Our US colleagues have been using FASTON connectors to connect BACS cables for years already – but they have not been used in Europe until now.

When we introduced SOC % measurements to determine battery capacity in Europe in 2023, we expected complaints from the USA about inaccurate SOC % values – but the opposite was the case!





# THIS LED US TO LOOK CLOSER

In BACS systems, the RI value is a crucial basic parameter for calculating SOH (State of Health) and SOC % (State of Charge). However, it is only through balancing that the impedance value of one battery can be reliably compared with others!



Strangely enough, this worked better in the USA than in Europe - even with modern pure lead batteries and wet cells with extremely low RI values. Despite the low impedances, no false alarms occurred there. The measurement results consistently provided a clear picture of the battery health (SOH) and the battery capacity (SOC%).

## But why was there this difference?

To find out, we travelled to the USA and carried out measurements in data centres and military facilities. The only difference to Europe: FASTON was used in the US - but in a double version - while in Europe ring terminals were used.

In the USA, the Double-Faston Ring tab is placed directly on the battery terminal, separated into two separate connection points. Previously: The measuring and current-carrying cables ran parallel to the battery pole, which made it easier for interferences to occur during the measuring pulse. New: The measuring and current-carrying cable are separated over a 5-6 cm distance directly at the battery pole.

This physical separation of measuring cables significantly minimizes interference from the live cables. The result: more stable measures, fewer false alarms and significantly more precise battery monitoring - better than the previous BC5 measuring cable with ring terminals.



# DOUBLE-FASTON – THE BENEFITS



01

## Maximum accuracy of impedance measurements

The Double-Faston adapter enables more precise impedance measurement as compared to conventional BC5 cables with ring terminals. The improved separation of the measuring and power lines minimizes interference, which provides more reliable measurement results.



02

## Faster installation & maintenance with Double-Faston

Battery technicians can easily replace BACS measuring cables and install them on new batteries more quickly – without dismantling the battery connection.



03

## Manual measurements made easy

Battery technicians can carry out measurements themselves without having to loosen the connectors on the system or the contact protection. This makes maintenance work easier and saves time.

04

## Security without compromise

The Double-Faston adapter creates two additional measuring points without compromising the existing contact protection. Even when the BACS cables are plugged in, the contact protection is retained, while the poles are freely accessible for the tips of the battery measuring device.

05

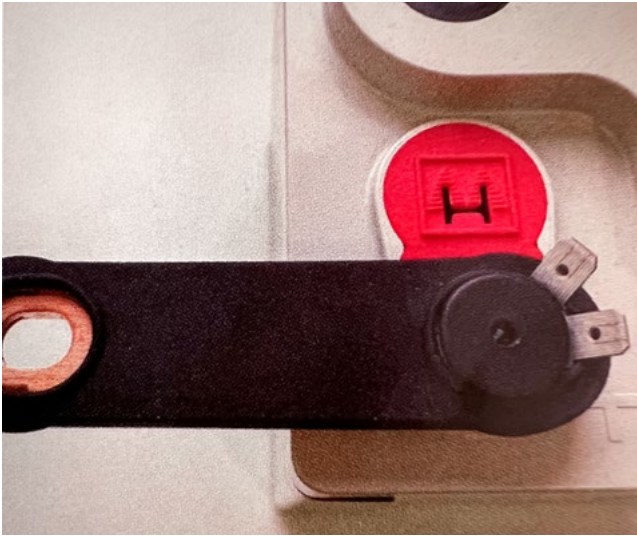
## Proven technology

Successfully tested in the USA for over 10 years and now available for the European market.





# NEW STANDARD IN EUROPE!



The German battery manufacturer HOPPECKE has recognised the benefits and has been offering a Faston plug connection with full insulation for its grid Xtreme VR series since 2024. The series simplifies BACS installation - while ensuring maximum safety. From mid-2025, we will, for the first time, also be offering the Double-FASTON ring terminals, previously only available in the USA, in a version specially adapted for Europe.

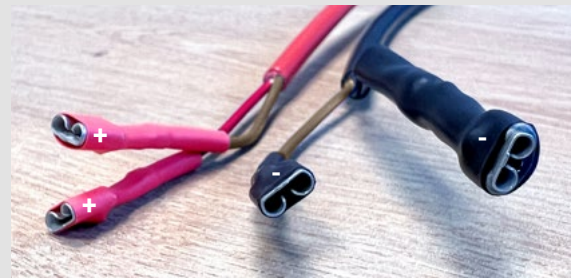
## Technical Improvement

Comparison BC5 measuring cable vs. BC6 measuring cable with double faston:



### Before: BC5

Two measuring cables were crimped into a single cable terminal.



### Now: BC6 with Double-Faston

The measuring and the current-carrying cable are separated from each other.

This new physical separation of measurement points forms the basis for more precise impedance measurements and improves the SOC % calculation in the current and future BACS generation.

We want to establish the advantages of Double-FASTON in Europe and invite all experienced BACS customers and installers to consider this new assembly technology – especially for new battery installations.

- ◆ A battery system can be equipped with double fastons for just a few euros, making subsequent BMS retrofits particularly cost-effective.
- ◆ Secure your competitive advantage early on – forward-looking planning with Double-Faston makes future upgrades much easier!

The Double-Faston adapters are produced in the USA and are specially optimized for European FASTON plugs. This exclusive GENEREX version will be available in the new price lists from 7/2025.



# WHY THE DOUBLE-FASTON ADAPTER OPTIMIZES YOUR SYSTEM



Battery monitoring is a critical component of modern UPS and emergency power systems. With the new Double-Faston adapter, GENEREX sets a new standard for precise measurements, simpler installations and long-term stability.



## Why should you rethink if you want to install BACS/ BMS systems?

- ◆ Simpler installation that saves time and money – ideal for new builds and retrofits.
- ◆ Highest measuring precision thanks to optimized electrical contacts.
- ◆ Reduced maintenance costs, as false alarms due to poor plug connections are eliminated.

## Questions?

Contact our consultant team:  
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