



# **DECLARATION OF CONFORMITY in accordance with FNN Guidelines**

“Connection and Operation of Storage Systems  
in the Low-Voltage Network” (2022)



## Declaration of Conformity in accordance with FNN Guidelines

“Connection and Operation of Storage Systems in the Low-Voltage Network” (2022)

Manufacturer:  
Midcosta s.r.o.  
Priemysel'na 8E  
91701 Trnava  
Slovakia

Midcosta s.r.o. hereby confirms that the products listed below, in combination with a compatible PrimePower battery storage system, comply with the requirements of sections 4.10, 4.11, and 4.12 of the VDE FNN guideline “Connection and Operation of Storage Systems in the Low-Voltage Network” (2022).

Product	Hybrid Inverter
Inverter Model	MID-H3K-T, MID-H4K-T, MID-H5K-T, MID-H6K-T, MID-H8K-T, MID-H10K-T, MID-H12K-T, MID-H10K-T40, MID-H12K-T40, MID-H15K-T40, MID-H20K-T40
Smart Meter Model	SK-MA(3*230/400V, 120A/100mA)

According to section 4.10, the system is classified under Category B: storage systems without feed-in of grid-charged energy. It is ensured that in the case of government-subsidized generation systems, only subsidized electricity is fed into the public grid. In exceptional cases (e.g. deep discharge protection), technical measures are in place to prevent energy charged from the grid from being fed back.

As per section 4.11, it is confirmed that a functionality test of the energy flow direction sensor has been performed and proper operation is ensured.

According to section 4.12, the inverters can be configured so that the power fed into the AC grid can be limited between 0 W and the rated output of the inverter. A zero feed-in is achievable by setting it to 0 W.

The response of the hybrid inverter follows the following curve:

**Figure 1: Active power limit curve for the function of the 'EnFluRi sensor'.**

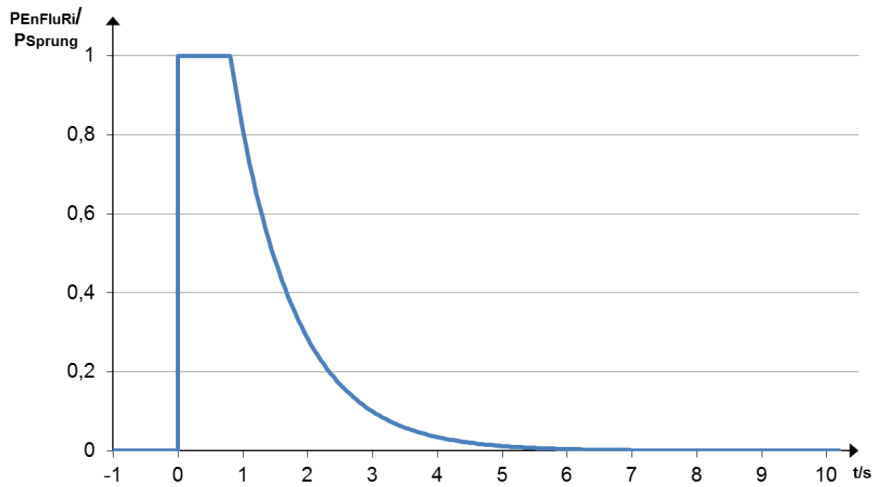


Abbildung 1: Wirkleistungs-Grenzkurve für die Funktion des EnFluRi-Sensors

Die Grenzkurve (Abbildung 1) folgt dabei folgendem prinzipiellen Verlauf:

$$P_{\text{EnFluRi}} = P_{\text{Sprung}} \cdot e^{-1,05 \cdot (t - 0,8)}$$

This declaration is made under the sole responsibility of the manufacturer.

Trnava, 03. April 2025

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