Powering
next gen
mobility

VERS active inside

Energy Recuperation System
Product Card

VERS

New **standard** of efficiency

New advancements in carbon and Graphene technologies enabled Energy Recuperation with **99% efficiency** across the Automotive industry. Our systems focus on recovering energy in the process of combustion engine braking — rather than dissipating the kinetic energy into heat, recuperation provides significant fuel savings.

Working **principle**

Process of **Energy Recovery**
VERS employs the onboard alternators as generators, collects produced energy in the supercapacitors module and powers electronic devices, thus saving fuel. The supercapacitors' loading procedure takes seconds thanks to the ion exchange energy transfer which is a rapid physical process.

Energy Recuperation System

1,7 l / 100 km
Fuel savings

Cold Start
Assist

Battery
Protection

Our Systems maintain rigorous testing, **Quality Assurance and CE Certification standards**. VERS is a universal device compatible with every combustion Bus & Coach equipped with a CAN interface. The System dimensions and low weight - 20 kg - make it a plug&play application.

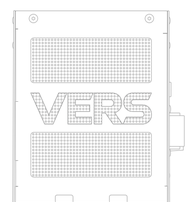
VERS

Rated voltage: **24V**
Maximum Power: **350 A**
Energy Capacity: **30 Wh**

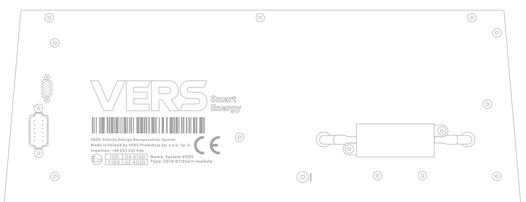
ISO 9001:2015 Certification

CE Certification, Homologation No. 10, No. 118

Height: **217 mm**



Width: **211 mm**



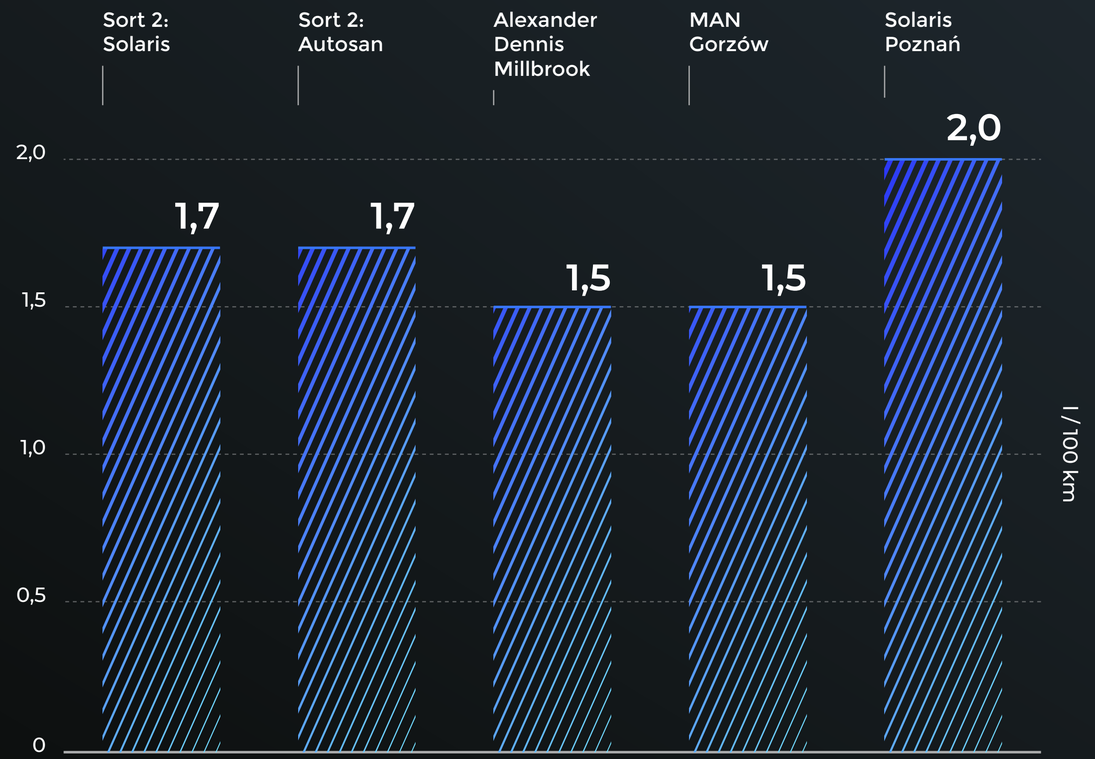
Lenght: **560 mm**

Power when you need it

Winter conditions and low battery levels can affect fleet reliability in Northern climates. VERS System is equipped with functions dedicated towards battery problems: **Cold Start Assist** and **Battery Protection**. First, the System supports the starter with up to 300 A of additional current making it practically 100% reliable in all conditions. Secondly, it protects the onboard battery from high loading currents, lengthening its life expectancy by up to 400% (as tested with City Bus Customers).

Regular **savings**

Each VERS System can be equipped with a Monitoring unit, measuring performance and sending the data via Wifi. Our Customers receive regular updates on their savings in Monthly Reports delivered to their email. VERS savings are verified with numerous OEMs and Operators in Comparative SORT2 testing and during normal operation in over 500 buses in 20 European cities.



VERS Testing Results as measured by multiple OEM Customers.

Above, **VERS Monthly Report** generated from our custom Monitoring unit. The average Return on Investment is estimated to 3-5 years of a City Bus operation.

Customer **Contact**

We are delighted to know your views. If you need additional information or would like to test VERS Systems onboard your buses, please feel free to contact our Customer Team.

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