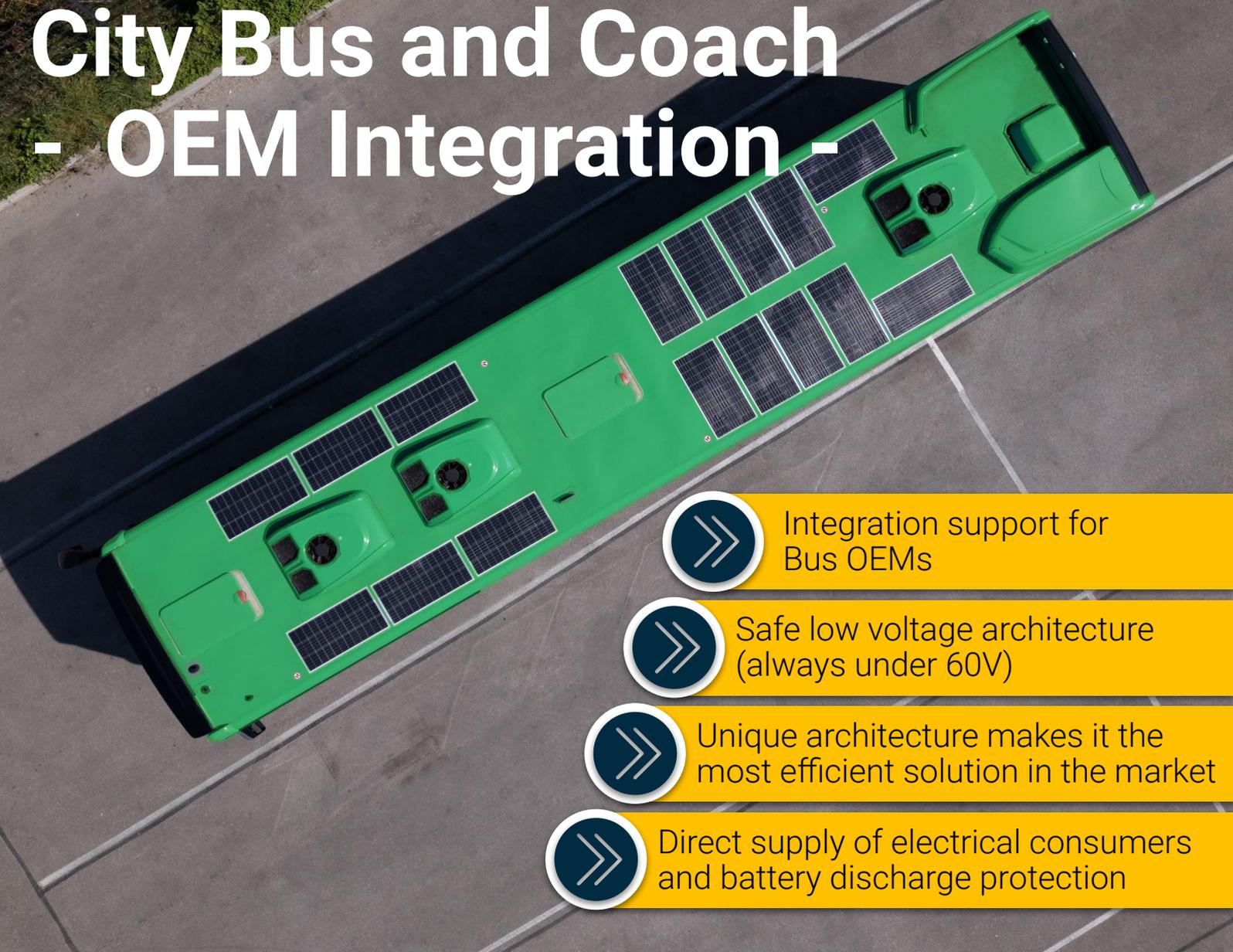


# Solar systems for City Bus and Coach - OEM Integration -

SONO  MOTORS



Integration support for Bus OEMs



Safe low voltage architecture (always under 60V)



Unique architecture makes it the most efficient solution in the market



Direct supply of electrical consumers and battery discharge protection

## SYSTEM BENEFITS AT A GLANCE

### Sono Motors in-house design

- Multi channel solar charge controller
- High efficiency Si-Solar Modules
- Integration solutions for commercial vehicles



### Customer requirements are professionally met

- End customer profits from OEM quality
- Efficient installation in the production line



### Sustainability

- Diesel and CO2 savings
- Enhanced battery life
- Power delivered directly to the 24V consumers



### Marketing

- Gaining public attention with cutting-edge technology
- New solar features add value to eco-friendly bus travel



# FUNKTIONS- & LIEFERUMFANG



**Up to 1,4 kWp of power through high-efficiency, flexible SILICON SOLAR PANELS (up to 16)**

deliver cost-free green energy.



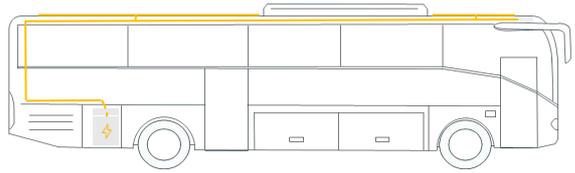
**SOLAR CHARGE CONTROLLER** with 8 channels developed by Sono Motors **efficiently delivers solar energy to the 24V vehicle battery**, directly powering bordnet electric consumers. Real-time optimization of shading conditions.



**TELEMATIC DEVICE** delivers performance data, including solar output and battery health, displayed by a **DATA DASHBOARD** available on mobile and laptop.



**Complete or customized** system components delivery from Sono Motors. Reduced scopes are possible for cost optimization with OEM parts.



**CAN Communication** and **"stand alone"** operation. CAN integration with climate control enables automation and new features like 'auto-ventilation.'



**INSTALLATION** on **OEM assembly line** with support from Sono Motors during planning and initial setup



## WHY SONO MOTORS KITS?

- » Sono systems achieve the highest solar yield through multichannel MPPT\* architecture and parallel connection
- » Sono charge controller responds most efficiently to rapidly changing sunlight
- » Sono charging algorithm delivers power to the onboard grid and battery with outstanding efficiency
- » Safe low voltage (<60V) across all states; no high-voltage certification needed
- » Small module sizes enable flexible compatibility with different roof layouts
- » System weight lower than 55 kg
- » ECE R 10 compatible
- » Fast installation time
- » System performance guarantee of >80% after 10 years.

Installation example



Data Dashboard

Charge controller under roof



## CONTACT

**Jörg Bodmer**  
Senior Product Manager  
Solar Bus Application

**E** [joerg.bodmer@sonomotors.com](mailto:joerg.bodmer@sonomotors.com)

**P** +49 176 15881058



\*Maximum Power Point Tracking