



Lenze Mobile System ensures efficiency in e-buses

**Modular product platform for customized solutions**

▶▶ With the Mobile modular platform from Lenze Schmidhauser, manufacturers can quickly create a custom-made system for the drive control of auxiliary units and the provision of energy for the onboard power supply by simply choosing standardized products from a catalog. The portfolio includes intelligent double inverters (DCU), DC-to-DC converters (PSU) and

various dual-purpose modules, all specially designed for use in commercial vehicles. The set of modules is proven in series production and continually extended – the newest addition is the DCU Single Inverter S for the control of air-conditioning systems and compressors.

The double inverters are equipped with two motor or generator

outputs in the 7.5-60kWp power range. They can be used to control synchronous and asynchronous motors (three-phase; with or without an encoder) and are especially suited for the control and operation of auxiliary equipment such as air-conditioning compressors, air compressors and power-steering pumps, or as smaller main drives (in v/f or vector mode).

DC voltage converters are available with 14V DC or 28V DC output voltage and up to 200A of current (up to 5.6kW power output). They create a high-performance

onboard power supply system or can be used as a replacement for the alternator. For power-intensive applications, multiple converters can be connected in parallel. A number of dual-purpose modules combining a DC-to-DC converter and a single inverter in one module round up the offer. All the modules are certified in accordance with ECE R10 and housed in uniform casings (IP6K9K) with an identical structure.

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**Delivering zero emission transportation in demanding environments**

▶▶ The United States Forest Service recently announced its commitment to the introduction of clean, sustainable electric transportation to help preserve the environment and enhance the visitor experience at Sabino Canyon, Arizona. To facilitate the introduction of environmentally responsible transportation, the Forest Service announced it was awarding a five-year



contract to Regional Partnering Center (RPC), to provide a fleet of zero-emission, open-air, 62-passenger trams. RPC teamed with Trams International, a leading USA tram manufacturer, on the project, which included a demanding duty cycle on a

route featuring steep grades and several water crossings. Trams International worked closely with Transfluid to provide key drive system components for the project. Transfluid is a 60-year-old company that designs and produces hybrid and full-electric transmission systems. The complete transmission system installed on trams is fully electric, features a permanent magnet

e-machine supplied through a dedicated traction inverter, has a high-energy LiFePO4 battery, and is managed via CANbus and control systems developed in-house. The e-machine is mated to a gear and a clutch to transfer the power to the wheels.

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