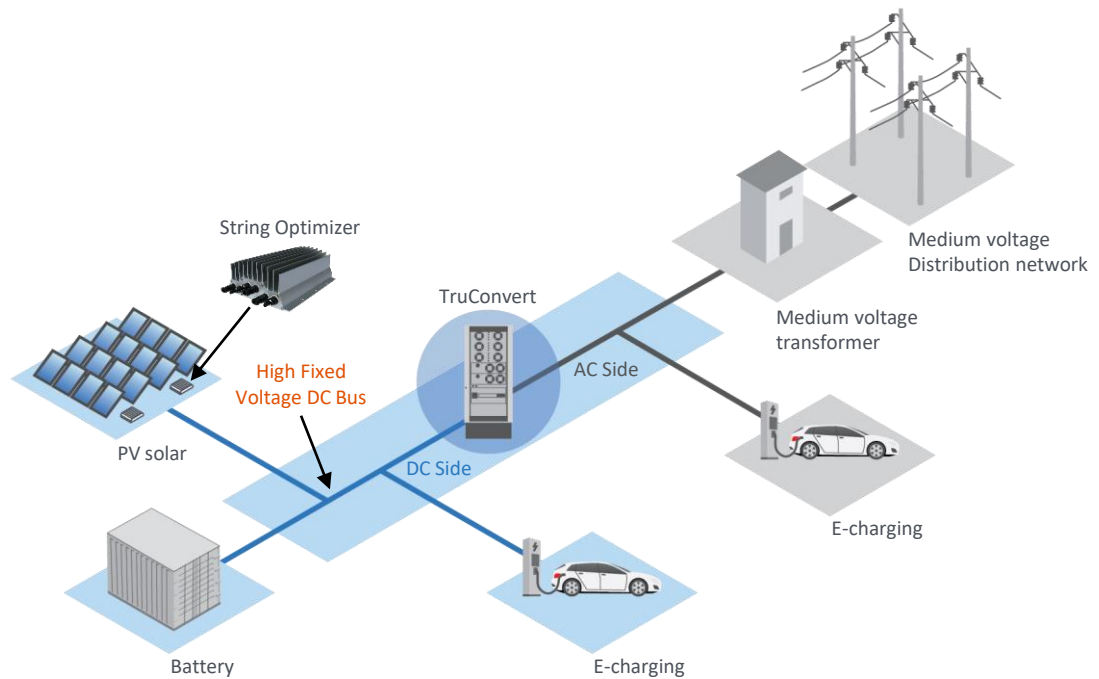


Flexible Power Electronics Solution for PV Solar + Storage Systems

TruConvert + String Optimizers



Future proof system that lowers the total cost of system ownership

Pairing the TRUMPF TruConvert product family with Ampt String Optimizers provides straightforward system designs that are perfectly coordinated and readily adaptable with unbeatable flexibility.

- Treat power sources and energy stores independently
- Efficiently integrate additional system components
- Mix and match power levels when replacing PV modules
- More lifetime energy with string-level MPPT

The TRUMPF TruConvert product family is comprised of a bi-directional battery inverter and a bi-directional DC-DC converter. Both devices are modular to allow for system scalability from the kilowatt to megawatt ranges. Ampt String Optimizers allow the PV array to scale as well so the entire system can easily accommodate immediate and future system needs.



Ampt DC String Optimizer

Ampt String Optimizers manage power from the PV array by performing MPPT on each string of PV modules and delivering full available power at a voltage that follows the DC bus. Ampt allows the DC bus voltage to be set by either the inverter, the DC-DC converter, or the battery itself – whichever allows for optimal system design and operation for a given application. This simplifies system controls and makes complex component interoperations easier than systems without Ampt.

- Lower cost PV system and ESS
- Optimal PV-to-inverter loading ratio
- Increase flexibility for future upgrades



TRUMPF TruConvert DC

The bidirectional TruConvert DC Series 1000 DC-DC converters from TRUMPF Hüttinger are suitable for use with any battery, whether lithium-ion, second life, redox flow or lead-acid batteries. They can be used in the most varied of storage technologies thanks to a wide voltage range from 0 V to 700 V. The modular 19-inch inverter structure allows simple integration in an electrical cabinet or container, facilitating a connection with the most varied of storage technologies.

- Broad voltage range
- Simple integration
- Reliability due to parallel circuits



TRUMPF TruConvert AC

The bidirectional TruConvert AC 3025 battery inverter from TRUMPF Hüttinger converts alternating current into direct current. This can be fed into any battery and retrieved when needed. Benefit from a wide variety of network link options, black start capacity, voltage and frequency droop and virtual impedance – combined in just one inverter system. Their compact design in 19" standard housings make them the ideal solution for small and even large battery storage systems.

- Islanding, black start
- Virtual Synchronous Mode
- UL, ARN4110, EN50549-1, TOR, AS4777.2*, G99*
- Droop Control
- Seamless Islanding

About Ampt

Ampt delivers innovative power conversion and communication technology that are used to lower the cost and improve performance of new PV systems, repower existing systems, and enable lower cost DC-coupled storage. With installations and experience serving markets around the world, Ampt is the number one DC optimizer company for large-scale systems.



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About TRUMPF Hüttinger

TRUMPF Hüttinger is a high-tech company and a leading global manufacturer of DC, medium-frequency, high-frequency and semiconductor-based solid-state microwave generators. The business divisions include plasma technology, industrial heating, battery inverter systems as well as microwave generators and amplifiers. These process power supplies are being used in many key processes in research, development and production.



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