

Alencon's isolated DC:DC converters are particularly helpful in this regard because they use a specialist, high-frequency silicon carbide transistors and transformers to map the nominal voltage of the fuel cell into the nominal voltage of the DC bus to which it is connected. Once the DC:DC converter brings those two different voltage levels ...

Adding Battery Energy Storage to Existing Solar Plants: A Case Study. This case study, produced in partnership with Duke Energy, explains the opportunities and challenges with installing battery energy storage into existing solar plants

How Alencon Systems' Products can be Accounted for in the Domestic Content Bonus of Inflation Reduction Act (IRA) Controlling Solar and Storage for Optimal Results; How Mass Customization Lets You Generate More Solar Energy; Alencon Systems, LLC. 330 S. Warminster Rd., Suite 380.

The BOSS: Alencon's Battery Centric Topology for DC-Coupling Solar + Storage. Alencon Systems' Bi-Directional Optimizer for Storage Systems (BOSS) can be used to enable the deployment of storage in a PV array with inverters from ...

Ideas for how to address the inevitable degradation that occurs with lithium-based energy storage systems. Products. SPOT - PV String DC-DC Optimizer; BOSS - Bidirectional, Storage DC-DC Optimizer; ... Alencon Systems, LLC. 330 S. Warminster Rd., ...

Alencon Systems Profile and History. Alencon's solutions for ALternative ENergy CONversion provide high modularity and scalability for systems from several megawatts to several-hundred megawatts. By helping to dramatically reduce balance of system costs, and increase power production through new inverter and energy harvesting technology ...

This however is where Alencon's BOSS (bi-directional optimizers for storage systems) comes in to play. The BOSS offers system designers the ability to control a centralized battery, whether at the rack or the container level, and allows the battery to charge from or discharge into a number of individual string inverters.

Easier Management of System Grounding - Galvanic Isolation can be a great tool in a number of alternative energy application for resolving differentials in grounding schemes between input and output. Two great examples of this benefit are explained in the articles below:

Alencon's BOX form factor is a unique, cost effective option for deploying Alencon's galvanically isolated, DC:DC converters, the SPOT and the BOSS. The BOX allows numerous SPOT or BOSS units to be deployed in a single location.

Building a Better Microgrid. In this case study, we explore just how Emera - a \$34 billion energy services company - is leveraging the unique galvanic isolation of the SPOT to change the game in microgrids that are powered by solar and battery energy storage.

Alencon Systems provides you a wealth of unique, cost effective solutions for integrating DC-coupled storage into your next PV project or even to retrofit into an existing plant. Learn more PV Plant Repowering. Keep Your Existing PV Assets Running Strong! A PV plant's performance can diminish over the years for a variety of reasons, from module ...

Alencon has partnered with IMO to offer the Fire Raptor the ultimate solar panel rapid shutdown solution - developed and designed with Fire Safety prominently in mind and compliant with stringent standards of NEC 2017. The Fire Raptor can be installed with either new PV systems or as a retrofit to existing systems to bring them into compliance with NEC 2017 and other local ...

Here at Alencon Systems, we build a unique line-up of galvanically isolated DC-DC optimizers than can be configured to meet your exact EV charging needs. The Alencon BOSS platform is a galvanically isolated, bi-directional DC-DC optimizer that can charge and discharge batteries of virtually any level of voltage from as low 100 volts to as high ...

One of the unique aspects of Alencon's storage solutions is that make them such great enablers for integrating storage with PV is their galvanic isolation. Galvanic isolation allows Alencon's technology to isolate storage from PV assuring the highest ...

Building a Better Microgrid. In this case study, we explore just how Emera - a \$34 billion energy services company - is leveraging the unique galvanic isolation of the SPOT to change the game in microgrids that are powered by solar and ...

Alencon's Grid Inverter Package - the GrIP - is a 10MW central PV inverter, the largest available on the market today. The GrIP uses Alencon's Patented Harmonic Neutralization technology to shatter the barriers of price, reliability, efficiency and size of traditional PWM-based PV inverters.. With a rugged, sealed enclosure, liquid-cooled components, heavy duty copper buses, and no ...

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