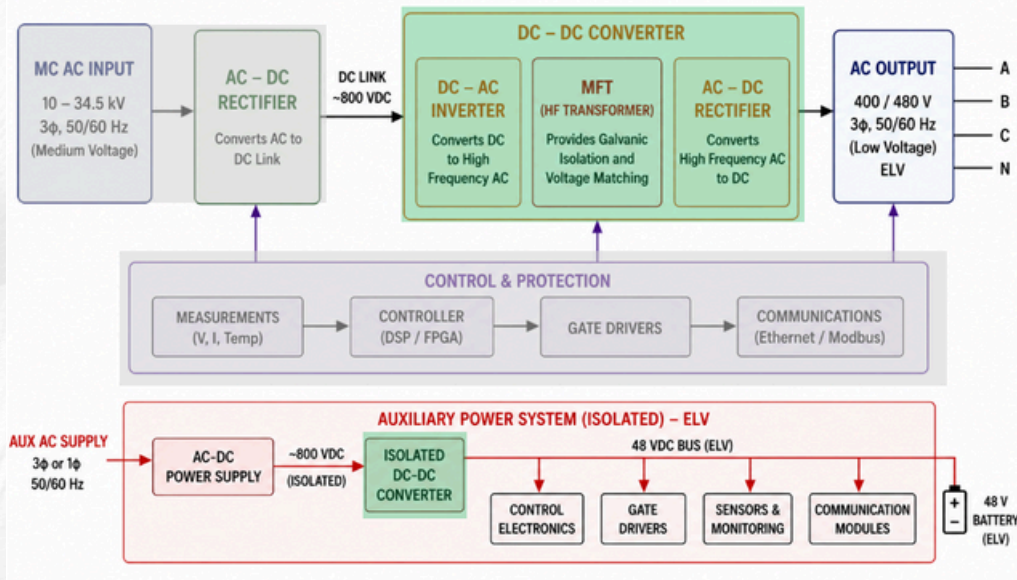


CoolCAD 800V-48V DC-DC Converter

Bi-directional DC-DC Converter for AI Data Center Power Distribution

MVSST – MEDIUM VOLTAGE SOLID STATE TRANSFORMER



Features

- Very high efficiency up to 95.7%
- Liquid-cooled
- High voltage interlock circuit
- 800 VDC high voltage bus
- 48 VDC low voltage bus
- Modular architecture
- Bi-directional power flow

Applications

- Medium-Voltage Solid-State Transformers
- Data Center MVDC Distribution
- Electric Vehicle Fast Charging Infrastructure
- Battery Energy Storage Systems
- Renewable Energy Systems
- Industrial Medium Voltage Drives

Advantages

- Supports power flow in both directions, allowing efficient energy management between systems
- Reduced conversion steps
- Has configurable CAN control with SAE J1939 protocol
- High efficiency (up to 95.7%), liquid cooling, and a rugged ARINC 600-style enclosure with sealed connectors
- Additional control level outputs are for integration and a self designed high voltage interlock circuit
- Modular architecture allows simple integration into previous designs



sales@coolcadelectronics.com