

E-Line MV Medium Voltage Cast Resin Busbar System (12 kV / 17.5 kV, up to 5000 A)

Product Features

- Designed for medium voltage applications (12 kV and 17.5 kV)
- Rated for high current capacities, from approximately 950 A up to 5000 A as standard
- Utilizes full-length tin-plated copper conductors embedded in a Duracomp composite (epoxy resin + silicon minerals) for robust insulation, mechanical strength, and thermal stability
- Housed in an extruded aluminum enclosure providing lightweight durability, UV resistance, and earth continuity
- Outstanding performance in harsh or outdoor environments: IP68 protection, corrosion-resistant, chemical-resistant, UV-resistant, pest-resistant, and requires no maintenance
- Outstanding short-circuit performance with lower voltage drop compared to cable systems
- Manufactured and tested to global standards including IEC 62271-200, IEC 61439-6, with independent type-testing certification
- Lightweight design allows for flexible installation, including horizontal or vertical runs with expansion modules and custom configurations

Product Description

The E-Line MV Cast Resin Busbar System is a premium medium-voltage electrical distribution solution engineered for high-power industrial and outdoor settings—such as substations, petrochemical plants, power generation facilities, and data centers. It operates at 12 kV or 17.5 kV voltage levels with current capacities ranging from 950 A to 5000 A, with higher ratings available on request. Featuring tin-plated copper conductors encased in a rugged Duracomp composite of epoxy resin and silicon minerals, the MV system delivers exceptional mechanical durability, thermal performance, and electrical insulation. The extruded aluminum housing not only reduces weight and improves mechanical resilience but also ensures effective safety grounding and resistance to environmental threats—corrosion, UV exposure, pests, or chemical attacks. Built to endure without maintenance, these busbars offer negligible voltage drop and high short-circuit resistance, surpassing traditional cable systems. Modules such as bends, panels, and expansion joints allow custom layouts, whether horizontal or vertical. Moreover, full compliance with IEC 62271-200 and IEC 61439-6, along with independent certification, makes the E-Line MV a dependable, standard-compliant choice for demanding medium-voltage applications.

Product Specifications

Voltage Levels:	12 kV and 17.5 kV
Current Capacity:	Approximately 950 A – 5000 A (standard range; higher available)
Conductor Material:	Tin-plated electrolytic copper (full length)
Insulation Material:	Duracomp composite (epoxy resin + silicon minerals)
Housing:	Extruded aluminum (lightweight and robust)
Environmental Resistance:	IP68 rated; corrosion, UV, chemical, and pest resistant; low maintenance design
Short-Circuit Resistance:	High; compact construction ensures minimal voltage drop
Standards Compliance:	Designed per IEC 62271-200 & IEC 61439-6; independently type-tested and certified

Installation Flexibility:	Supports horizontal/vertical runs; expansion modules and special elements available
Typical Applications:	Substations, petrochemicals, power generation, outdoor/industrial facilities, data centers