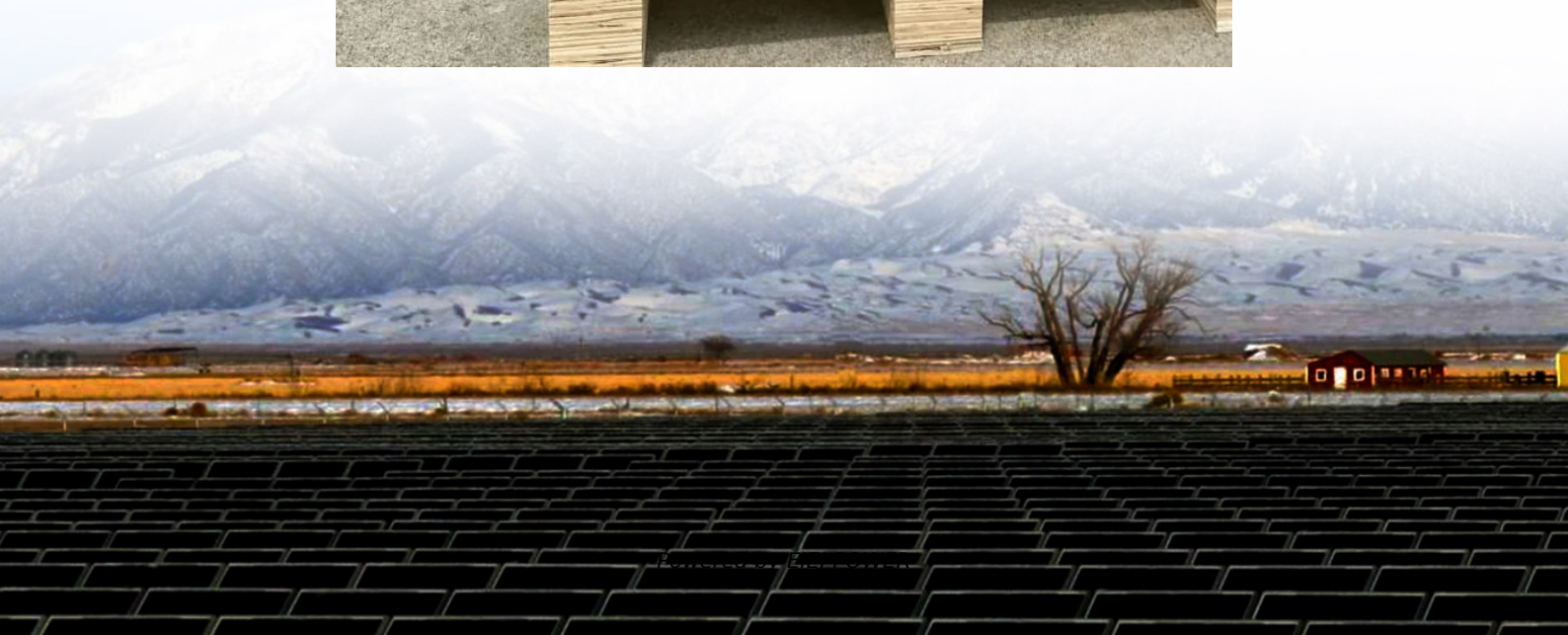


Abu Dhabi Super Aluminum Electrolytic Capacitor





Overview

What is the international standard for aluminum electrolytic capacitors?

The international standard for aluminum electrolytic capacitors is IEC 60384-4. The sectional specification mentioned above is complemented by a set of detail specifications that applies to specific design types (e.g. electrolytic capacitors with axial wire leads).

What is an aluminum electrolytic capacitor?

As is the case with all capacitors, an aluminum electrolytic capacitor comprises two electrically conductive material layers that are separated by a dielectric layer. One electrode (the anode) is formed by an aluminum foil with an enlarged surface area. The oxide layer (Al_2O_3) that is built up on this is used as the dielectric.

Are aluminum electrolytic capacitors reliable?

Aluminum electrolytic capacitors are generally divided into two basic reliability categories: capacitors for high-reliability applications and capacitors for general-purpose applications. This differentiation has also been adopted in the relevant IEC standards.

What is the anode of an aluminum electrolytic capacitor?

The anode of an aluminum electrolytic capacitor is an aluminum foil of extreme purity. The effective surface area of this foil is greatly enlarged (by a factor of up to 200) by electrochemical etching in order to achieve the maximum possible capacitance values.



Abu Dhabi Super Aluminum Electrolytic Capacitor

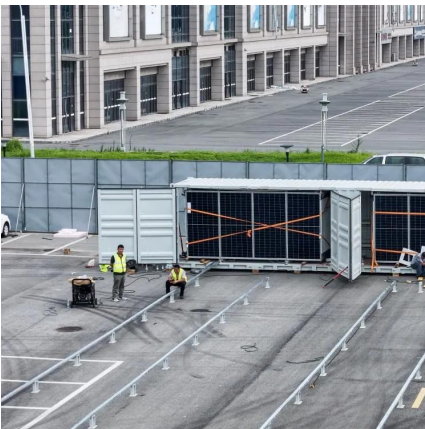


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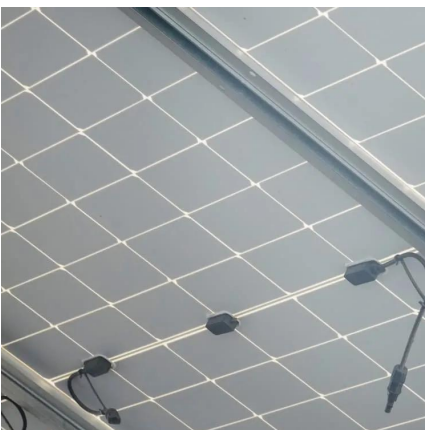
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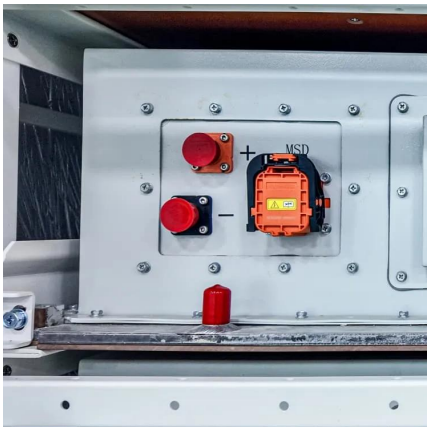


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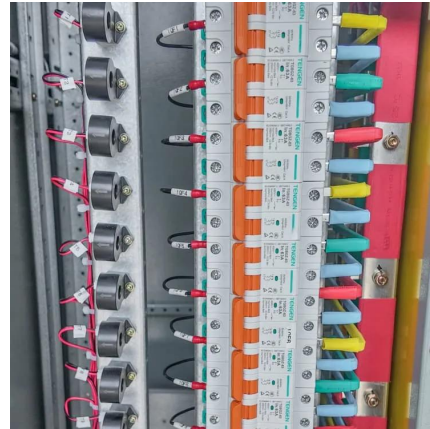
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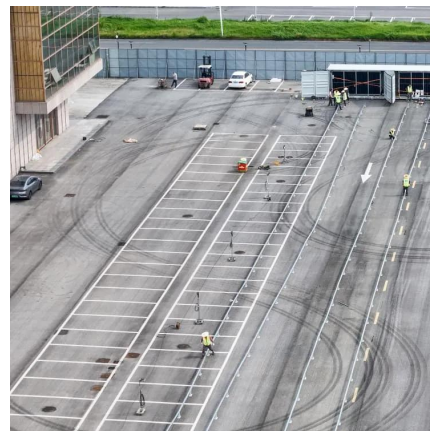


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