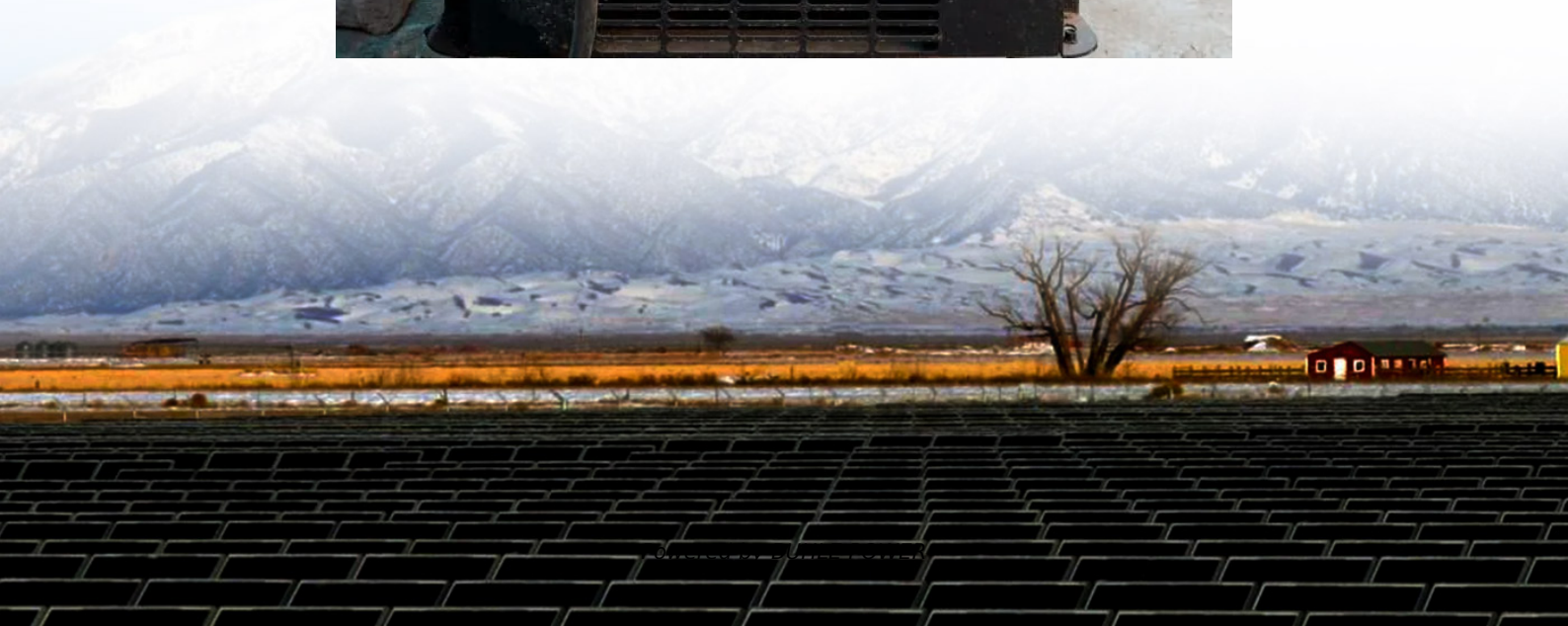


Swedish Gothenburg super aluminum electrolytic capacitor





Overview

What is the capacitance of aluminum electrolytic capacitors?

The capacitance of aluminum electrolytic capacitors is defined by the surface of the aluminum anode foil. This surface is maximized by special etching processes, giving these capacitors the highest volumetric capacitance of all capacitor technologies and thus an attractive cost per capacitance ratio.

What are aluminum electrolytic capacitors made of?

In aluminum electrolytic capacitors, the anode and cathode consist of highly roughened aluminum foils, whereby the roughened anode foil with the dielectric layer is rolled up between an absorbent material (usually paper).

What is a cathode foil in an electrolytic capacitor?

A second aluminum foil, the so-called cathode foil, serves as a large-surfaced contact area for passing current to the operating electrolyte. The anode of an aluminum electrolytic capacitor is an aluminum foil of extreme purity.

What type of electrode is used in aluminum electrolytic capacitors?

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. In contrast to other capacitors, the counter electrode (the cathode) of aluminum electrolytic capacitors is a conductive liquid, the operating electrolyte.



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