

European Solar and Energy Storage Solutions

Air-cooled generator blades



Overview

At a constant pressure ratio, of the engine increases as the turbine entry temperature (TET) increases. However, high temperatures can damage the turbine, as the blades are under large centrifugal stresses and materials are weaker at high temperature. So, turbine blade cooling is essential for the first stages but since the gas temperature drops through each stage it i.

How are turbine blades cooled?

Turbine blades are cooled using air, except for limited use of steam cooling in a combined cycle power plant. Water cooling has been extensively tested but has never been introduced.

What is a pressurized air cooled generator?

They achieve efficiency and power levels comparable to indirectly hydrogen-cooled generators with ratings of up to 560 MVA. Pressurized air-cooled generators are used in simple cycle, combined cycle, and steam power plants, as well as in synchronous condensing applications. Do you have a question regarding our products, solutions and services?

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What cooling techniques are used in gas turbine blades?

There are many techniques of cooling used in gas turbine blades; convection, film, transpiration cooling, cooling effusion, pin fin cooling etc. which fall under the categories of internal and external cooling.

Are air-cooled turbine blades made by Rolls-Royce?

Conclusions Typical air-cooled turbine blades produced by Rolls-Royce are reviewed, the evolution of the blades and advanced technologies which could be applied in the future are summarized as follows: (1) Over a long term, the gas turbine TET keeps increasing.

Why is blade cooling important in a gas turbine?

Currently, TET is about 350K higher than turbine blade materials melting points, as a result, blade cooling technology have to play a key role to bridge this big gap to ensure turbine blade operational safety. Blade cooling was first brought into gas turbine in Conway in 1962, since then, blade cooling has played a critical role in gas turbine.

Why should you choose air cooled generator systems?

Our air-cooled generator systems install fast, integrate easily, and deliver the power needed with more uptime. These generators are the choice for power plant applications that demand simple, flexible operation. Prepackaged generator solutions arrive ready-to-install at site reducing project cycle time with increased reliability.

Air-cooled generator blades



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