

What is the generator rotor inlet air temperature

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Numerical simulation of air flow distribution in large air-cooled turbo generator rotor at different rotation speed and inlet pressure. ... In order to reduce the axial temperature ...

Cooling systems are designed to provide adequate cooling for full load operation at a specified ambient air temperature typically between 40C \pm 176; (104F \pm 176;) and 50C \pm 176; (122F \pm 176;).

The ambient temperature conditions are crucial for the normal ignition and operation of the generator. All generators, regardless of the fuel used to power them, require sufficient air for ...

In this method of cooling, inlet air to the compressor is cooled from ambient temperature to a lower temperature by means of an "ammonia-water" vapor absorption ...

When the generator is running, the temperature of the stator winding, excitation winding, iron core, and collector ring is generally around 80 \pm C. If it exceeds, it means that the temperature ...

Rotor inlet temperature is defined as the temperature of the gas mixture entering the turbine rotor, which results from the cooling air mixing with the combustion gases after passing through the nozzle guide ...

The main objective of this paper is to elucidate the effect of rotor end structures of a largescale air-cooled turbo-generator on the flow rate distribution and fluid flow pattern in the rotor domain.

For totally enclosed water-air cooled machines, the cooling air temperature is that of the air leaving the coolers. On machines designed for cooling water from 5o to 30o C -the temperature ...

If an existing generator installation starts to have problems related to very high ambients, after all the usual factors have been eliminated, a review of the installation itself should be made including:



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Explore generator rotor design, operational issues, and refurbishment options. Learn about rotor types, reliability, and maintenance strategies.

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