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Title: Relationship between high generator wind temperature and air duct

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Turbine generators operate with complex cooling systems due to the challenge in controlling the peak temperature of the stator bar caused by Ohm loss, which is unavoidable. ...

When discharging air vertically, because the generator is surrounded on all sides, can result in higher than ambient air temperatures being pushed into inlet vents.

Where strong prevailing winds are anticipated, face the engine end away from the wind. Plan the installation carefully to prevent the cooling air vents on the generator from becoming clogged by ...

This paper presents the mathematical modeling of the thermal state of a 1000 W wind turbine generator (WTG) integrated into a vertical-axis wind turbine (VAWT) system, taking into ...

This study provides a quantitative relationship between ventilation width, temperature, and friction loss, demonstrates that non-uniform core design is superior to uniform structures in ...

So unless the equipment physically can't handle that number, that is the reasonable trade off between not having an extreme amount of airflow and understanding that the generator ...

To solve this problem, a radial forced ventilation cooling structure was designed and established in this paper, based on a 3.3MW, 12rpm external rotor surface mount permanent magnet ...

The influences of wind deflector and incident angles on the fluid velocity and temperature distribution are analyzed. Based on that, some useful conclusions are obtained.

Considering the complexity of the ventilation system, the investigation on the relationship between the air motion law in the ventilation duct and its surface heat transfer coefficient is crucial for the accurate ...

## Relationship between high generator wind temperature and air duct

In the installation manual/planning guide they usually specify the air supply duct size, provide exhaust and insulate the combustion exhaust. Gravity louvers will do the job, no forced ...

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