Generator wind temperature standard

What temperature should a generator be handled at?

The wind turbine generator should not be handled at a temperature below -20°C. (Please refer to section 3.1 for lifting the machine.) In case the generators are shipped by sea,a seaworthy packing hermetically sealed (Crate 4C SEI NIMP 15 Standard) will be used. Breaking the hermetic protective film discharges Leroy-Somer of its warranty.

What is the rated speed of a 10 MW generator?

The rated speed of a 10 MW wind turbine generatoris assumed to be 1,200 rpm with a slip of -0.2% [25]to reduce the rotor copper losses and improve the generator efficiency. (Appendix A9 provides the optimized design dimensions,performance,mass,and cost estimates for the five different turbines rated between 0.75 and 10 MW.)

What is a wind turbine sizing tool?

The GeneratorSEis a sizing tool for variable-speed wind turbine generators. It considers factors such as available torque,mechanical power,normal and shear stresses,material properties,and costs to customize designs by satisfying specific design criteria.

Which wind map is best for a small wind generator?

Therefore,for small wind generator applications,30- to 40-m wind mapsare far more useful than 10-,60-,80-,or 100-m wind maps. It is also important to understand the resolution of the wind map or model-generated data set. If the resolution is lower than the terrain features,adjustments will be needed to account for local terrain effects.

What size wind turbine do I Need?

The size of the wind turbine you need depends on your application. Small turbines range in size from 20 Watts to 100 kilowatts (kW). The smaller or "micro" (20- to 500-Watt) turbines are used in applications such as charging batteries for recreational vehicles and sailboats. One- to 10-kW turbines can be used in applications such as pumping water.

What is the rated annual energy of a wind turbine?

According to the AWEA Small Wind Turbine Performance and Safety Standard, the Rated Annual Energy of a wind turbine is the calculated total energy that would be produced during a 1-year period with an average wind speed of 5 meters/second (m/s, or 11.2 mph).

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