

Solar Energy South Africa

Hydrogenerator fan cover size standard



Overview

What is the Handbook of large hydro generators?

Handbook of Large Hydro Generators: Operation and Maintenance is a practical handbook for engineers and maintenance staff responsible for the upkeep of large salient-pole hydro generators and pumped-storage generators. It first presents the physics and design of large vertical salient-pole generators.

What is a Category 2 hydro generator?

These generators up to 5 MW capacity are classified as category-2 generators. These generators are factory assembled. The stators are transported in two segments and rotors in fully assembled as one integral component. Small hydro generators above 15MW are shipped in multi parts and are assembled and tested at site.

How many volts can a small hydro generator handle?

Generator of less than 5000 kVA may be designed for 6.6 kV, 3.3 kV or 415 volts depending upon requirement of generator WR2 or generator reactance. Minimum voltage rating of generator as per IEC 60034-1 and IS: 4722 and Economical terminal voltage for small hydro generators recommended by CBI P (305 - 2009) are as follows:.

Do hydro generators need a water-to-air cooler?

Water to air coolers normally are provided for modern hydro generators rated greater than 5 MW. The coolers are situated around the outside periphery of the stator core. Generators equipped with water-to-air coolers can be designed with smaller physical dimensions, reducing the cost of the generator.

What is the maximum temperature a generator can handle?

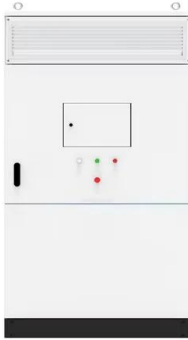
Cooling air entering the generator at not more than 40°C (Cooling water

maximum temperature 360C). The maximum temperature rise when the generator is delivering maximum output corresponding to continuous overload capacity for conditions rated above shall not exceed 90oC for both for stator and rotor winding respectively.

Can a generator be fitted with a fire rated extinguishing capacity?

The setting of the with fire a rated extinguishing capacity less system than of 12.5MVA the generator may not shall be be fitted selected with fire according extinguishing to the firefighting apparatus; standard of the country. 5.8.2 For measuring are pre adopted, sure velocity measuring device shall be set for the generator.

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Off Grid Hyrdo-Electric & Micro-Hydro How-To Guide

There ar many commercial small scale hydro power turbines on the market. They are generally rated for a maximum power generation and have a manufacturer recommended range for head (pressure) and flow rate. Use the information ...

Micro-Hydro Power: A Beginners Guide to Design and Installation

The Turgo runner is a cast wheel whose shape generally resembles a fan blade that is closed on the outer edge. The water jet is applied to one side, goes across the blades, and exits on the ...



What Size Generator Do I Need? (Chart + 3-Step ...

In most cases, it's impossible to get a generator size that will perfectly match both the watt draw and amp draw. You can only get the closest size of a generator (not exactly, but close). In this case, the most adequate size options are: Honda ...

Hydro Generator Test and Inspection Condition Assessment ...

ABB can provide customers with three levels of Hydro Generator T&I Condition Assessment (see Table 1): o Level 1 - Rotor In / Minimum Access to Generator - Electrical tests are performed ...



Investigating the possibility of increasing cooling air flow in a

[18]. The rotor of this hydro generator is designed similar to a centrifugal fan, in which the air is sucked upward and exits from the periphery. In this research, the hydrogenerator cooling of ...

Hydro Generator Test and Inspection Condition Assessment Service ...

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Effect of Generator Rotor Radial Deviation on the Unbalanced ...

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