



MODERNIZATION SOLAR

Production of 24V amorphous inverter





Overview

What is a PV inverter?

The PV inverter is all the devices necessary to implement the PV inverter function. If separate devices are required to perform this function, the PV inverter includes the totality of these discrete devices including, but not limited to: a combination of a DC optimizer plus the inverter in systems where both are necessary.

How do inverter products affect the environment?

In the case of inverter products, the main contributor to environmental impact is the integrated circuits on printed circuit boards . The raw materials required for solar PV manufacturing include metals, metalloids, non-metallic minerals and polymers, with differences in material needs across technologies.

What materials are used in PV & inverter technologies?

The materials include silicon, aluminum, antimony, copper, cadmium, indium, molybdenum, selenium, silver, tellurium, tin, zinc, lead and glass. Aluminum, copper and cobalt are the critical minerals used in PV and inverter technologies, among which cobalt is identified as having low importance in these technologies (Figure 11) .

When will PV modules end-of-life?

As the PV module market matures, increasing numbers of modules will reach end-of-life annually. A PV module waste volume of 100 000 tons was estimated for the year 2020 and is forecasted to increase to 1.7 million tons by 2030 (Figure 16) . Figure 16: Estimated cumulative global waste volumes of EOL PV modules 2016 to 2050 .



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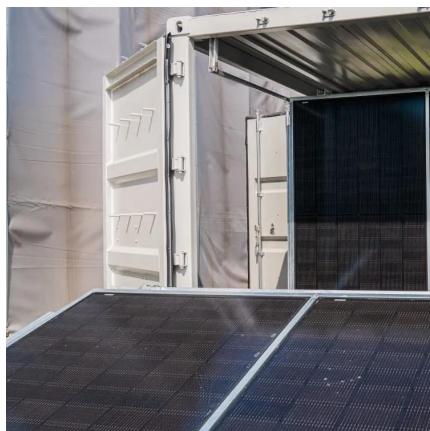


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The AN-FGI-DU4200 inverter is a new off-grid inverter launched by Anern. The biggest feature of this inverter is that it can realize the automatic switching function of 12V and 24V battery voltage.



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