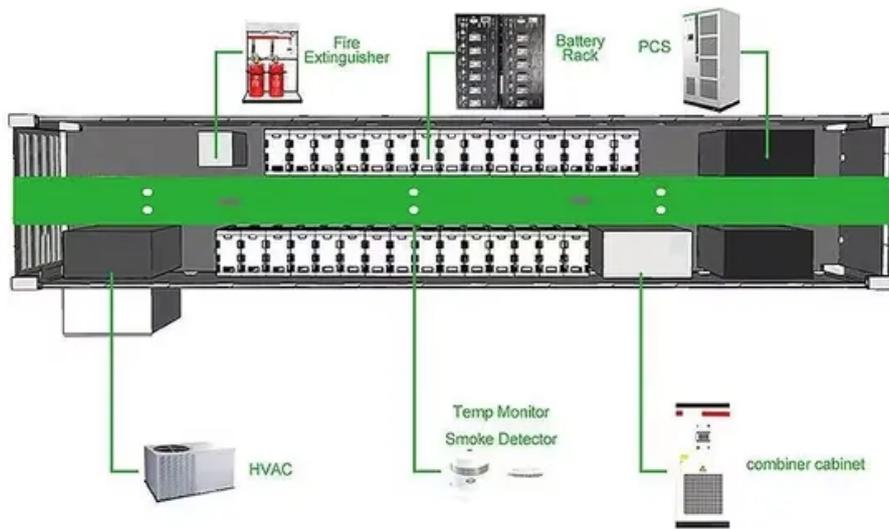


SolarTech Power Solutions

Latvian High Temperature Solar System



Overview

The ever growth of urban population has caused the increase of energy demand. This situation challenges the global public to find a way to produce energy in a secure, environmentally friendly, flexible, renewa.

Why is Venus a challenging environment when considering solar power?

Four effects make the surface of Venus a challenging environment when considering solar power : corrosive environment The greatest difficulty is the surface temperature of Venus, averaging 452 C, with little difference between daytime and nighttime.

Should a high-bandgap solar cell be used for high-temperature operation?

For high-temperature operation, as discussed before, a high-bandgap solar cell ma-terial would be preferred, but the blue-deficient spectrum puts a limit on the availability of short-wavelength photons.

How does temperature affect the performance of solar cells?

At the temperatures and pressures of the surface, stability against chemical attack is a significant concern. These factors combine to multiply the challenges of power on the surface. The low light intensity alone reduces power availability, and the reduction of performance of solar cells due to temperature exacerbates this difficulty.

Can solar cells work at high temperatures?

If future missions designed to probe environments close to the Sun will be able to use photovoltaic power generation, solar cells that can function at high temperatures under high light intensity and high radiation conditions must be developed. The sig-nificant problem is that solar cells lose performance at high temperatures.

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