



DISCOVER PRODUCTS

- 16 x 48-48-5120 AES RACKMOUNT Battery Modules
- 4 x AES RACKMOUNT Slimline Enclosures (950-0053)
- 1 x LYNK II Gateway (950-0025)

OTHER PRODUCTS

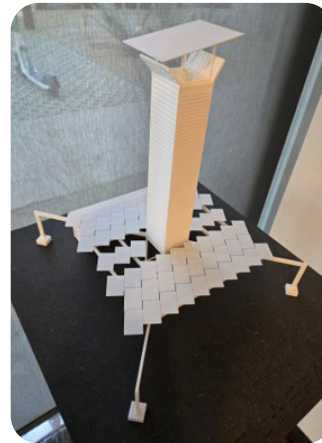
- 2 x Sol-Ark 15K-2P-N Hybrid Inverters
- 64 solar panels

APPLICATION

Power air flow, water misters, LED lights, and other systems in the SB Cool Tower

REQUIREMENT

Provide an area where people can cool off in the desert heat



OVERVIEW



AES RACKMOUNT 48-48-5120

STEEL + SPARK, a Phoenix-based innovator in sustainable, container-based construction, has selected AES RACKMOUNT as the power solution for their groundbreaking SB Cool Tower. This outdoor cooling station is a critical response to Phoenix's extreme heat, which claimed 645 lives in 2023 alone.

The SB Cool Tower employs the "cool air chimney effect," a clever design that uses water misters to cool the air and moves it down the tower's vertical shaft. This process, enhanced by a fan, creates a 30°F (17°C) temperature reduction as air exits the base. The gathering area, at the base of the SB Cool Tower, is shaded by 64 solar panels, which provides further cooling with additional misters.

Powering this system are 16 AES RACKMOUNT batteries, providing 80 kWh of storage within four AES RACKMOUNT Slimline Enclosures. Two Sol-Ark 15K-2P-N hybrid inverters manage the PV energy harvested by the solar panels, ensuring continuous operation. A repurposed shipping container houses the power system and a filtration unit for the water misters.

This system reflects STEEL + SPARK's commitment to sustainability.