



Windward Mall Rooftop PV Installation Using the FR510

Key Project Facts:

Location

Kaneohe, HI

System Size

924 kwDC /780kwAC

Mounting System

SollegaTM FastRack 510-6dg

Modules

(2736) Longi LR-672HV-340M - 340W

This project features a high-performance 924 kW-DC / 780 kW-AC solar installation for Windward Mall, the 2nd largest mall on Honolulu and 15 year host of the Plenty of Aloha Farmer's Market. This cutting-edge system enhances sustainability and reduces energy costs while withstanding Hawaii's challenging coastal environment.

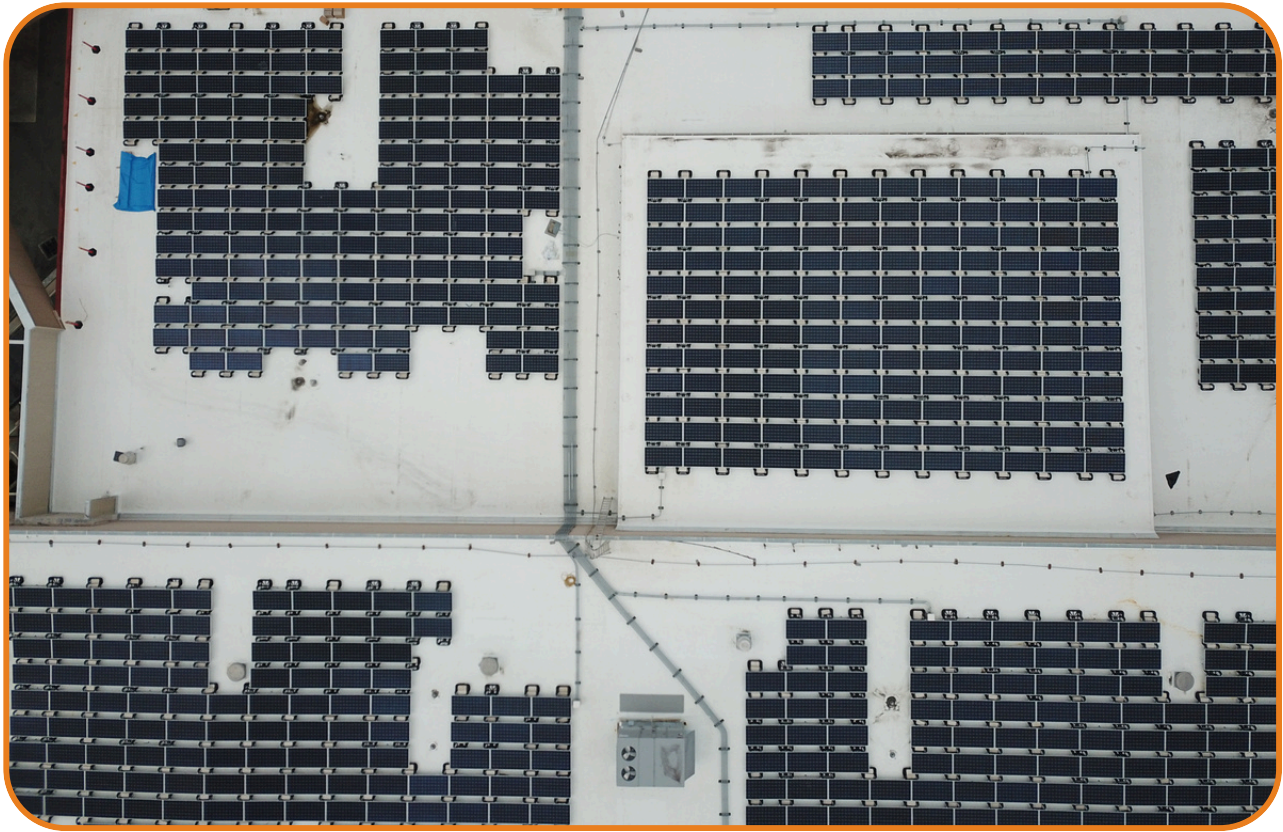
Featuring 2,736 Longi LR-672HV-340M solar modules and 13x DELTA M60U inverters, this project leveraged Sollega's FastRack (FR510-6dg) racking system for rapid, efficient deployment. The pre-assembled, tool-free design significantly accelerated installation, ensuring a seamless build with minimal disruption.



Hawaii's high salt spray and humidity demands a racking solution that resists corrosion and withstands the elements. The Sollega FR510-6dg, crafted from UV-resistant BASF Ultramid™ delivers exceptional durability, protecting the system's long-term performance and investment.

The installation process was streamlined due to the Sollega FR 510-6dg's lightweight and modular design, reducing labor hours and eliminating the need for heavy machinery. The ballasted system design minimized roof penetrations, preserving the integrity of the mall's infrastructure while maintaining stability in high-wind conditions. The 6-degree tilt angle optimized solar exposure and energy yield, ensuring maximum system efficiency.

Additionally, the FR510-6dg's corrosion-resistant materials significantly reduce maintenance requirements, mitigating long-term wear caused by Hawaii's challenging weather conditions. The integrated wire management system enhanced safety and organization, reducing installation complexity and improving overall system reliability. These technical advantages contribute to an extended lifespan of the PV system, ensuring reliable energy production and long-term cost savings.



Quote from Cesar Topacio, General Manager of Windward Mall:

"Thanks to the PV system installed by Hawaii Unified in 2020, Windward Mall has not only met its renewable energy goals but has also seen the system pay for itself in just a few years. The 2736-panel, 924 kW DC system has proven to be a smart investment, delivering significant cost savings while reinforcing our commitment to sustainability. This project showcases how clean energy solutions can provide both financial and environmental benefits for our community."



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