



ERS-SOLAR QUILT

EXPANDABLE PV ARRAY



EASY INSTALLATION, MAX EFFICIENCY, NO PENETRATIONS; ACCEPTS HEAVY FOOT TRAFFIC

DESCRIPTION

SolarQuilt, (patent pending), is a flat-roof, photo-voltaic, (PV) system that maximizes power density, minimizes roof loading, increases existing roof insulation value, and renders the system, as well as the roof underneath, 100% serviceable. The system is very much like a quilt in that its "patches" are off-the-shelf, framed solar PV modules that can be "stitched together" with strips of small corrosion-resistant sheet metal, forming a "SolarQuilt" that covers the roof.

Solar Quilt's gravity-held perimeter is also "stitched together" with a sheet metal system that is formed into a wind-deflecting tray holding the perimeter ballast. SolarQuilt is designed to be installed directly on top of a new or existing roof with minimal or no roof penetrations. The SolarQuilt has been wind-tunnel tested up to 155 miles per hour.

The solar modules are fully supported from underneath by a wedge-shaped foam spacer that is held in place by the module's frame. This underside support enables the solar modules to tolerate virtually unlimited foot traffic allowing service personnel full and easy access to any part of the solar array and the underlying roof. Any solar module, alone or with a group, can be easily removed by simply unfastening, (unscrewing), the locally attached sheet metal strips. The module(s) can just as easily be reinstalled.

The wedge-shape of the foam places each solar module at a 2° incline, yielding an essentially flat solar array with the benefit of directing water flow to aid in the removal of soiling. SolarQuilt is engineered to prevent the formation of energy-robbing sediment ponds that other flat roof designs create.

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