

Measuring Sub-Array Temperatures With and Without SolaTrim Barrier

SolaTrim was engineered to allow for air exchange under the solar panel array, keeping the system ventilated while blocking pest intrusion. As part of SolaTrim’s product testing, we measured the effect that installation of SolaTrim had on backside module temperatures. To document the effect, we placed temp sensors near the bottom of the system outside the perimeter, and at the top portion of the array underneath the module (see photo). We charted the sensor readings for 3.25 hours, on a partly cloudy day, wind 5-7mph, in the temperate climate of the East Bay hills in the SF Bay Area, Northern California.



As the results shown here indicate, the Temperature Differential between the two measured areas demonstrate that *under these conditions* there is no significant warming effect and air exchange is evident when an array perimeter is wrapped in *SolaTrim’s* custom Pest Abatement barrier.

Time	Ambient Air Temperature	Enclosed with SolaTrim	Difference (Fahrenheit)	Difference (Percentage)
9:43	59	56	-3	-5.08%
9:47	59	56	-3	-5.08%
9:52	59	57	-2	-3.39%
9:56	59	58	-1	-1.69%
9:57	60	58	-2	-3.33%
10:05	60	59	-1	-1.67%
10:06	61	59	-2	-3.28%
10:12	60	60	0	0.00%
10:28	61	60	-1	-1.64%
10:37	61	61	0	0.00%
10:42	62	61	-1	-1.61%
10:51	62	62	0	0.00%
11:18	62	61	-1	-1.61%
11:23	63	61	-2	-3.17%
11:36	63	62	-1	-1.59%
11:42	63	63	0	0.00%
11:46	63	63	0	0.00%
11:50	64	64	0	0.00%
12:06	64	67	3	4.69%
12:10	65	67	2	3.08%
12:22	67	69	2	2.99%
12:30	67	70	3	4.48%
12:41	67	70	3	4.48%
12:48	68	70	2	2.94%
12:50	69	71	2	2.90%
13:00	69	71	2	2.90%
Average			0.0	-0.18%

