

BP Solar – going beyond industry standards

Delivering performance that counts

Module efficiency is only part of the equation in evaluating energy generation from your solar system. Without module reliability, you will pay more for your energy and system.

We tested BP Solar against the others in the industry – high efficiency and all – and learned that BP Solar comes out truly at the low end...which is a great thing when you're speaking about cost per kilowatt-hour and cost per watt!

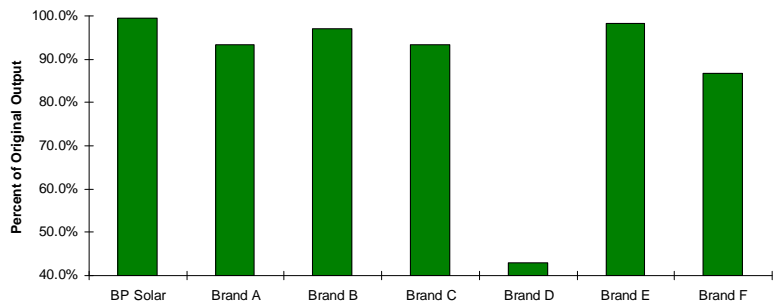
- Modules subjected to BP Solar's extended accelerated life test protocol.
- Environmental testing completed by independent third party lab.
- Testing of top market share leaders represented based on Solarbuzz June 2008.

After being put through the same testing protocol to simulate 25 years of life in the field, BP Solar's modules had only a 0.6% loss in output – better performance than any of the other manufacturers tested.

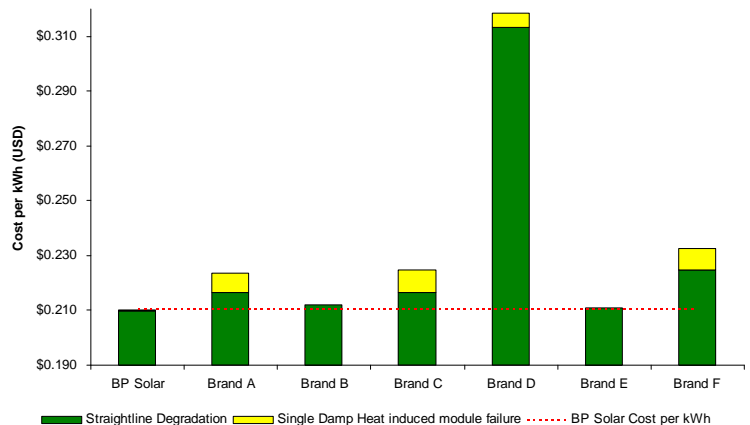
What does this performance mean for you? The lowest cost per kilowatt-hour and the lowest cost per watt over the life of the system.

- Calculations based on \$8/watt cost for 5kW system.
- Assumes a balance of system loss per year of 0.4% for all competitors.
- Assumes PV module loss per year based on accelerated life testing.
- Assumes 25 year system lifetime.
- Top market share leaders represented based on Solarbuzz June 2008.

Module output after 25 years



Cost per kWh over the life of the system



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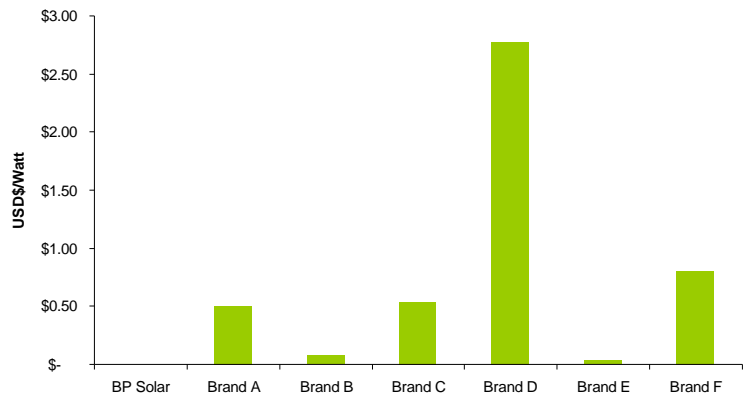
When customers experience less problems, they are almost guaranteed to be happy – more than 91% of past purchasers surveyed have said they are satisfied or extremely satisfied with their BP Solar system.

Proven in the lab and proven in the field, BP Solar produces the most reliable products in our industry so you pay less in the long run.

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- Assumes a balance of system loss per year of 0.4% for all competitors.
- Assumes solar PV module loss per year based on accelerated life testing.
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BP Solar goes well beyond industry standards to ensure the long term reliability of our products. Through this testing, coupled with ISO9001 and ISO14001 international certifications, you can be assured you are getting a reliable, quality product.

The cost of poor reliability



| Test | IEC 61215 required testing | BP Solar testing |
|---|---|---|
| Thermal cycling – taking the modules from -40°C to +85°C | 200 thermal cycles from -40°C to +85°C | BP Solar tests 500 thermal cycles plus addition of current. |
| Damp heat exposure – keeping the modules at +85°C with 85% relative humidity | Damp heat exposure at +85°C with 85% relative humidity for 1000 hours. | BP Solar tests 2000 hours of exposure. |
| A combined cycle test of ultraviolet radiation, thermal cycling from -40°C to +85°C, and humidity freeze cycles from +85°C 80% humidity to -40°C. | A combined leg of UV pre-conditioning (15kWhm-2), 50 thermal cycles from -40°C to +85°C and 10 humidity freeze cycles from +85°C, 85% RH to -40°C . | BP Solar tests 100 thermal cycles. |
| Mechanical load test at uniform load (pressure) | Mechanical load test of 3 cycles of a 2400 Pa uniform load applied for one hour to front and back surfaces in turn. | BP Solar tests 100 thermal cycles plus 24-hour flex cycle testing. |
| | Not Required. | BP Solar runs full short-circuit current through the modules during the thermal cycle testing, making the test much closer to the real-world environment. |
| | Not Required. | BP Solar tests 1000 cycles of front and back pressure at 1000 Pa |