

GET THE MOST OUT OF YOUR PV MODULE WITH COOLBACK®

PATENTED BACKSHEET / FRAME INTEGRATION & UPGRADE



FOR MANUFACTURERS -

Produce PV modules that meet the high demands of your customers with high performance in kWh and lifetime, at no extra cost of investment. COOLBACK[®] is easily integrated into existing PV module production. Lamination processes are unchanged, and framing is replaced using automated assembly with COOLBACK[®] profiles. Cost competitive and high speed.

FOR USERS, INVESTORS & EPCs

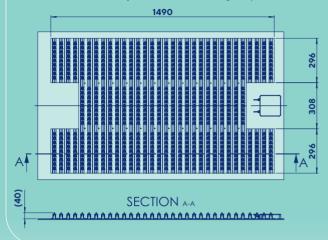
Enhance PV module performance in output and lifetime with COOLBACK[®]. Don't waste Watts - especially in high irradiation areas, where the nominal operational cell temperatures (NOCT) cause high heat losses and speed up degradation. COOLBACK[®] lowers the levelized costs of energy (LCOE) and upgrades module quality. Same Watts, more output.

* proven extra instantaneous output, depending on local irradiation and wind

** based on lower temperatures *** based on optimized container per temperature cycle during transport volume lifetime

COOLBACK[®] BUILDUP

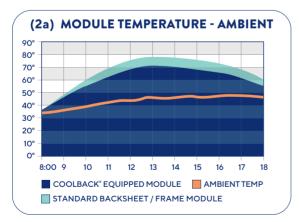
The COOLBACK[®] buildup is based on a backsheet consisting of an adhesion promotor, an isolating layer and a metallic outer layer. PV module assembly is in accordance with standard operation procedures. Smart structure assembly - instead of framing - is possible



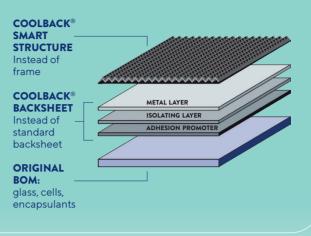
COOLBACK® PERFORMANCE

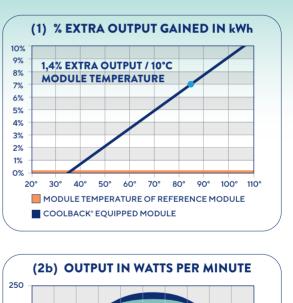
COOLBACK® output performance is proven by independent certification bodies.

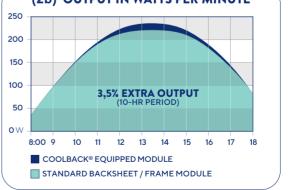
- 1 The amount of extra output using COOLBACK[®] based on standard (reference) module temperatures. Under wind conditions between 0,5 and 4,5 m/s, an additional 1.4% output can be expected for every 10°C above 35°C. *Example:* A standard module with an operational temperature of 85°C, COOLBACK[®] would generate an additional 7% in output.
- 2 Results of a typical day at the Sevilla, Spain test station:
 (a) up to 10°C difference in module temperature.
 (b) up to 5,5% extra output and a cumulative of 3,5% extra output.



with the COOLBACK[®] assembly machine. The backsheet is available on coil or in sheet. Manufacturer preference of material is considered for a 1500 Volt and a 1000 Volt backsheet. Modules of 60-cells and 72-cells are both supported by COOLBACK[®].







COOLBAC

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established in 2011