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FuturaSun presents Zebra, the new photovoltaic module with IBC technology

Electrical contacts on the back, maximum light absorption, 21.3% module efficiency, no LID, PID and LeTID problems.

ZEBRA is the new back-contact module with power up to **360 Watt**. FuturaSun's latest creation is the new high-efficiency monocrystalline photovoltaic module with **IBC** (Interdigitated Back Contact) **technology**. The new ZEBRA series is a FuturaSun high-end product.

This new panel consists of **120 laminated and framed IBC half-cut cells**, whose size can be compared to a standard 60-cell module (1004x1685 mm). The electrical contacts are on the back: **no ribbons**, nothing that covers the cell, no shade, **maximum light absorption**.

This new technology is currently reaching **360 Watt** with a **21.3% module efficiency in the version with the white back sheet**. The elegant **total black design**, with black back sheet and frame, can reach **340 to 350 Watt**. It is particularly suitable for residential applications and **buildings with a high architectural value**.

Its **low-temperature coefficient (-0.3%/ °C)**, adds **3% of power in average operating conditions**. Moreover, the inverter is switched on earlier in the morning and switched off later in the evening, thanks to its improved low light performance.

The ZEBRA module series is innovative also for another reason: it's **immune not only to degradation problems like PID** (Potential Induced Degradation) but it's also to **LID** (Light Induced Degradation), which are common in other high-efficiency monocrystalline modules. Moreover, ZEBRA is free from **LeTID (Light and elevated Temperature Induced Degradation)**, a factor that strengthens performance over time and ensures safety for the investment of the system.

Zebra's production was possible thanks to the agreement with SPIC for purchasing innovative N-type Interdigitated Back Contact (IBC) cells. Initially, this **solution was developed and patented in Europe by the International Solar Energy Research Centre (ISC) Konstanz Italy in 2011**.



FuturaSun is thus bringing the technology back to Europe, and stepping into an innovative market segment with a revolutionary product.

Nicola Baggio, CTO of FuturaSun, is pleased with the new product and adds “The efficiency of the ZEBRA module **with its 21.3 % ranks high among marketed modules.** A unique product that photovoltaic experts have been long awaiting”

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