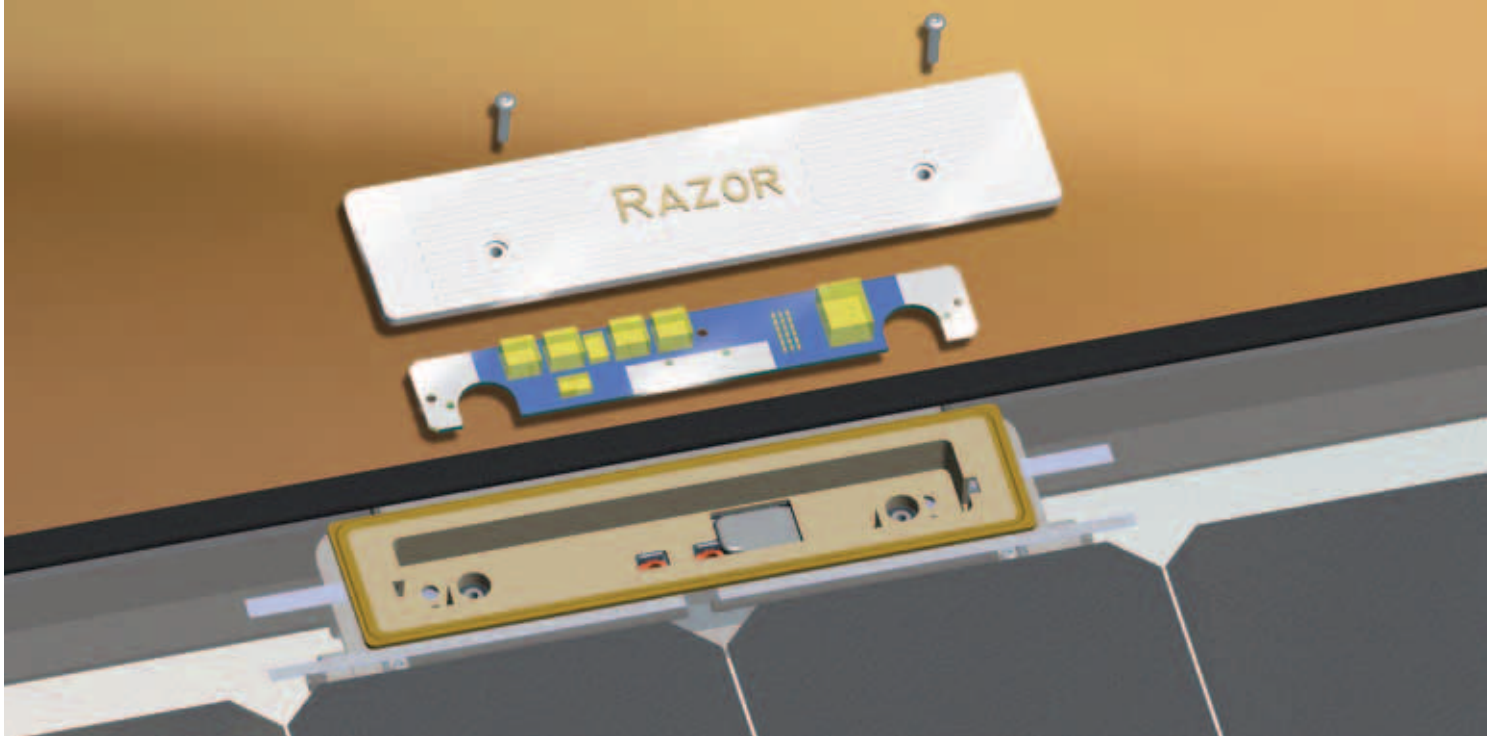


EPIC[®] SOLAR RAZOR

Think outside the box







The interior components of the EPIC® SOLAR RAZOR can be accessed quickly and easily.

Junction box with a revolutionary concept

Easy access shortens maintenance time and reduces service cost – Upgradeable with future electronics – Significantly optimised automated assembly to modules

Due to the increasing use of electronics in photovoltaic modules and the associated required service concepts, the Lapp Group and FPE Fischer have developed the EPIC® SOLAR RAZOR junction box. In line with the principle 'think outside the box', a completely new connection concept has been created.

Thanks to the EPIC® SOLAR RAZOR, for the first time, the functional components in the junction box are accessed easily from the front side of the module and protected from environmental influences. It is considerably easier to reach and replace the functional components, such as surge protection, shut-down mechanism, performance monitor and performance optimisers, saving

time and money when servicing is required. Furthermore, the design of the junction box allows the module to be upgraded with future technologies, such as MPP tracking, at a later date. The photovoltaic modules can be individually equipped with electronic components at the factory, by the dealer or even by the installer.

The extremely flat junction box allows significant optimisation of production steps. The design of the junction box allows for a simplified contacting through automatic welding. There is no curing time required for the adhesive elements, as the upper and lower elements are mechanically interlocked with one another.

The modular design of the aluminium junction box increases the flexibility of product variants. This enables the module manufacturer to optimally position its products on the market. In addition, the logo of the module

manufacturer on the upper cover of the junction box increases the recognition of the manufacturer's module, opening up new branding opportunities.

The junction box consists of extremely durable aluminium material. This reduces thermal load of the components and increases the service life compared to standard plastic junction boxes considerably. At the same time, fire hazards are drastically reduced. The junction box is watertight in compliance with IP 67 protection class. This prevents contact corrosion, resulting in constant, high-level performance and minimises the risk of hotspots and electric arcing. The junction box is preconfigured with the EPIC® SOLAR 4 Thin connectors. Due to its welded contacts, the contact resistance of the connector is at a low level, unrivalled by its competitors.

Innovative production concept

- Service concept
- Modular design and access to electronics
- Function blocks can be reached and exchanged from the front of module
- Function blocks can be added to ex-works, by the dealer or the installer
- The addition of future technologies is possible at any time
- Customer-specific solutions on one module platform
- Front-sided cover as a design and CI Element
- Decoupling of the connection areas from the function elements
- Automised mounting by welding or soldering
- No curing time due to the way the upper and lower elements are secured
- Aluminium reduces thermic stress on the function blocks and prolongs the service life
- Opening and closing ensured by the module service life
- Extremely flat design
- Tried and tested components and experienced manufacturer of junction boxes, cables and plugs.

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