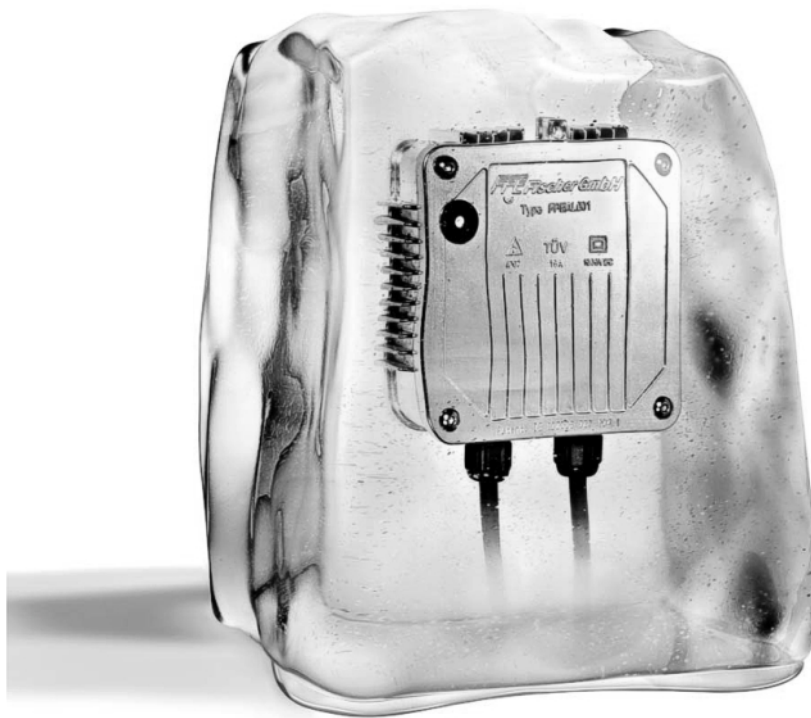


BEAT THE HEAT.

REVOLUTION
Aluminium
Junction Box
Patented



FPE
* The Cool Side®

FPE Junction BOX

* Hot – Hotter – Hot Spot? No worries:

The new Aluminium Junction Box from FPE will greatly improve the safety, performance and service life of your photovoltaic system.

Heat removed. Insulation ensured.

With the development of this revolutionary Aluminium Junction Box, FPE managed to integrate two normally opposite processes: Optimal heat dissipation and sufficient electrical insulation.

With Aluminium, Silicone...

The diodes are placed right onto the Aluminium Junction Box: This way, we can dissipate the heat into the aluminium, from where the heat is released into the ambient via cooling fins. Electrical insulation is provided by heat dissipating silicone rubber hoses around the diodes.

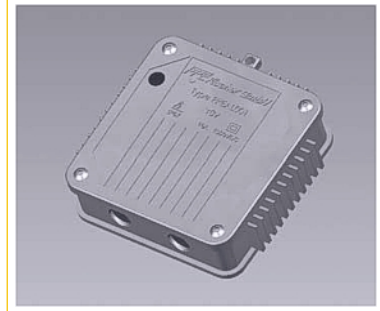
... inner Box...

All other cables and connectors are well protected in the inner box, so that a short circuit is effectively prevented.

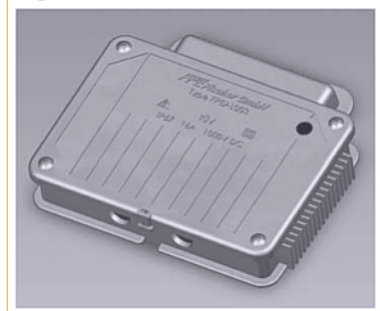
... and Goretex®.

A Goretex® membrane enables humidity to exit the Junction Box, avoids long-term contact corrosion and maintains an optimal air pressure towards the lamination.

* FPEAL 001



* FPEAL 003



Performance guaranteed. Service Life enhanced.

The new Aluminium Junction Box will greatly reduce the danger of a diode failure, consequently reducing the risk of underperforming modules, hotspots and fire hazards. Furthermore, the ambient resistance of aluminium guarantees the serviceability of the Aluminium Junction Box throughout its lifetime.

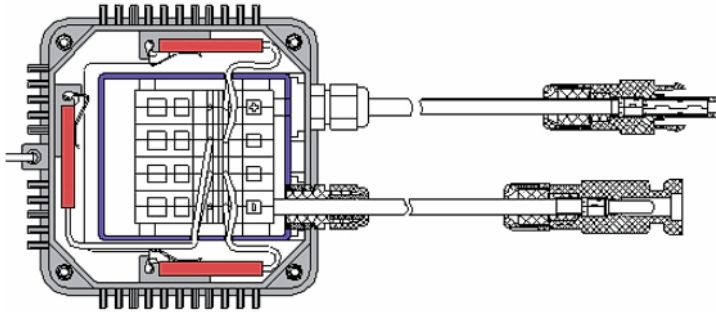
Optimal heat dissipation.

Excellent ambient resistance. German patented design and engineering.



FPE Junction BOX

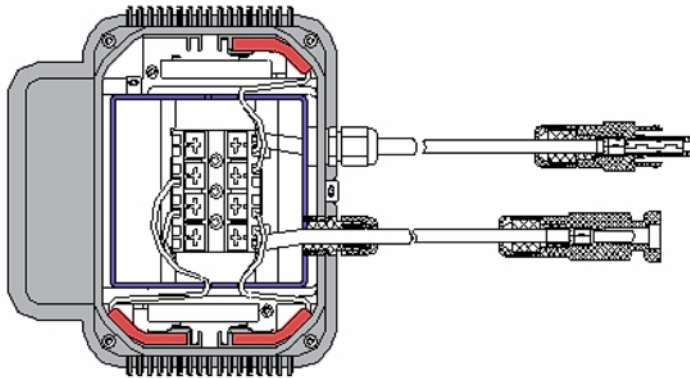
* FPEAL 001



Dimension / Maße	105x110x30 mm
Rated current / Bemessungsstrom	16 A
Maximal current* / Maximaler Strom*	13 A
Rated Voltage / Bemessungsspannung	1000 V DC
Protection Type** / Schutzart**	IP 67
Safety Class / Schutzisolierung	Class II / Klasse II
Connection capacity / Anschlussquerschnitt	4 mm ²
Connection for flat cable / Breite Metallbänder	3-6 mm
Operating Temperature / Temperaturbereich	-40°C to +85°C
Diodes / Dioden	3 Shootky diodes rated 16 A

* IEC 61215, 2ndED. "Bypass-Diode Test"; ** max 1.0/30 min

* FPEAL 003



Dimension / Maße	105x130x30 mm
Rated current / Bemessungsstrom	16 A
Maximal current* / Maximaler Strom*	16 A
Rated Voltage / Bemessungsspannung	1000 V DC
Protection Type** / Schutzart**	IP 67
Safety Class / Schutzisolierung	Class II / Klasse II
Connection capacity / Anschlussquerschnitt	4 mm ²
Connection for flat cable / Breite Metallbänder	3-9 mm (folded / gefaltet)
Operating Temperature / Temperaturbereich	-40°C to +85°C
Diodes / Dioden	3 Shootky diodes rated 16 A

* IEC 61215, 2ndED. "Bypass-Diode Test"; ** max 1.0/30 min