PRESS RELEASE

New photovoltaic modules from AL-KO VTE: Flexibly capture solar energy

Roof geometries of caravans or motorhomes are rarely as flat as the roofs of large houses. That's why AL-KO VTE is expanding its range of photovoltaic modules with variants that can adapt to the shape of the vehicle. A new module in the all-black series that operates at the highest efficiency currently available on the market features among these new products.

Independence with high-performing charging sources

Independence from an external supply of water and electricity is part of the DNA of campers and caravan mobilists. Even in the smallest mobile leisure home, tanks and batteries ensure living comfort when no external supply is available. Photovoltaic modules are among the features that support this independence. An efficient, high-performing charging source keeps camper van batteries in optimal condition in a win-win balance between cost and yield. That's why they now form part of the standard roof or wall equipment of motorhomes and caravans.

From the typical rectangular pattern to all-black chic

The standard design of photovoltaic modules is still the natural anodized grey of aluminium panels. With their typical rectangular cell pattern, these rigid modules are clearly visible from a distance. But in recent years, all-black modules have been on the rise. They fit organically into more sophisticated vehicle designs of motorhomes and caravans whose all-black modules highlight the effect of metallic-painted bodies, alloy wheels, or other high-impact design details.

The most efficient photovoltaic module on the market

AL-KO VTE is now introducing the MFBC190 module in the all-black segment. Thanks to its advanced Back Contact technology, it achieves the highest efficiency currently available on the market. The positioning of the electrical contacts on the back of the cell creates a monochromatic front surface free of grids or soldering. This special design minimizes module-internal shading losses and maximizes sunlight capture – a key advantage for vehicles parked under trees or in mixed light conditions. With a compact size of 130x67 cm and 60 individual cells, it produces up to 190 W – currently unparalleled in this market segment.

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AL-KO Vehicle Technology Electronics (VTE) is a leading European company for electrical and electronic systems in the caravan sector and was born from the merger of CBE, Nordelettronica and Toptron. https://www.cbe.it/en

The AL-KO Vehicle Technology Group is a swiftly growing global technology group and a business unit of DexKo Global. With high-quality chassis and suspension components for trailers, leisure and commercial vehicles, construction and agricultural vehicles, the group represents the best in functionality and comfort as well as innovations to ensure greater driving safety. Founded in 1931 the group today has around 3,000 employees at more than 40 locations worldwide. Find out more at www.alko-tech.com

DexKo Global Inc. is one of the world's leading manufacturers of high-quality chassis technology, chassis assemblies, accessories and hydraulic brake components. DexKo Global was founded in 2016 through the merger of Dexter and AL-KO Vehicle Technology. Headquartered in Novi, Michigan/USA, the company employs around 6,000 people in more than 100 production facilities and distribution centers. For more information, please go to www.dexko.com

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Seamlessly integrated in ONDA Connectivity
The Solar Charge Regulator for the MFBC190 can be completely integrated into the ONDA Connectivity app via Bluetooth. This means you can access the current performance data of your solar system at any time with your mobile phone or the ONDA Line Touch Panel.

Flexibly adapted to contours
The next step to adapt to vehicle designs has now been achieved by the two modules from the AL-KO VTE Flexible Series. Both modules come in all-black chic. The MFFL150 attains a maximum output of 150W with its 33 solar cells and the MFFL190 reaches a maximum of 190W with 105 cells. A special highlight: The carrier material and transparent front section are flexible. That means they can adapt flexibly to the existing body contours, minimizing the surface area exposed to the buffeting effects of the airstream. Another advantage is that the modules of the Flexible Series can be glued on, eliminating the need for drilling or screwing.

Photovoltaics at the highest level
Technically, all three module variants are based on PERC technology (Passivated Emitter and Rear Cell). It ensures a higher level of conversion efficiency, translating into improved performance. The special antireflection treatment and special high transmittance glass or plastic is resistant to knocks and atmospheric agents. Also, the backs of the modules are characterized by excellent chemical, electrical, and mechanical resistance properties, on top of excellent UV ray barrier characteristics. This protects them from air and humidity infiltration, insulates electric contacts, and prevents oxidation. They comply with the most stringent requirements of European standards and are covered by a 25-year warranty on the declared power.

Complete kits for installation
AL-KO VTE supplies the appropriate installation kits for each solar panel including charging control, mounting device, and cable. The complete range of accessories is customized to match the respective modules and optimize the electricity yield.

Specifications:

Model	**MFBC190**	**MFFL150**	**MFFL190**
Type	PERC Back Contact	PERC (Passivated Emitter and Rear Cell)	PERC (Passivated Emitter and Rear Cell)

PRESS RELEASE

Number of cells	60	33	105
Voltage	12 V	12 V	12 V
Maximum power	190 W	150 W	190 W
Tolerance	+-3%	+-3%	+-3%
Voltage open circuit	21,60 V	21,78 V	23,10 V
Voltage short circuit	10,84 A	8,32 A	9,93 A
Voltage at max.	18,60 V	19,14 V	20,30 V
Current at max.	10,22 A	7,84 A	9,36 A
Dimensions (mm)	1.300x670x30	1.260x690x3	1.620x690x3
Weight (kg)	9,4	2,3	2,9

Caption: Flexibly capture solar energy: The carrier material and transparent front section of the MFFL150 and the MFFL190 are flexible. Both can adapt to the existing body contours, minimizing the surface area exposed to the buffeting effects of the airstream and both modules of the Flexible Series can be glued on. © AL-KO Vehicle Technology Group

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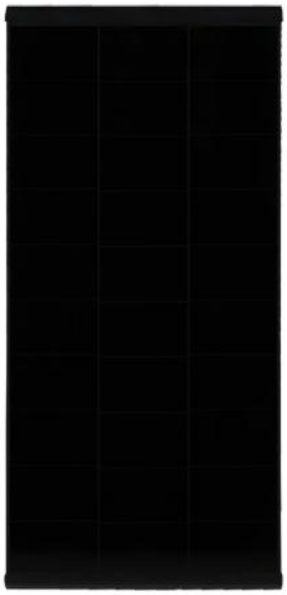

Caption: The most efficient photovoltaic module on the market: The MFBC190 module with 190W in all-black design. © AL-KO Vehicle Technology Group