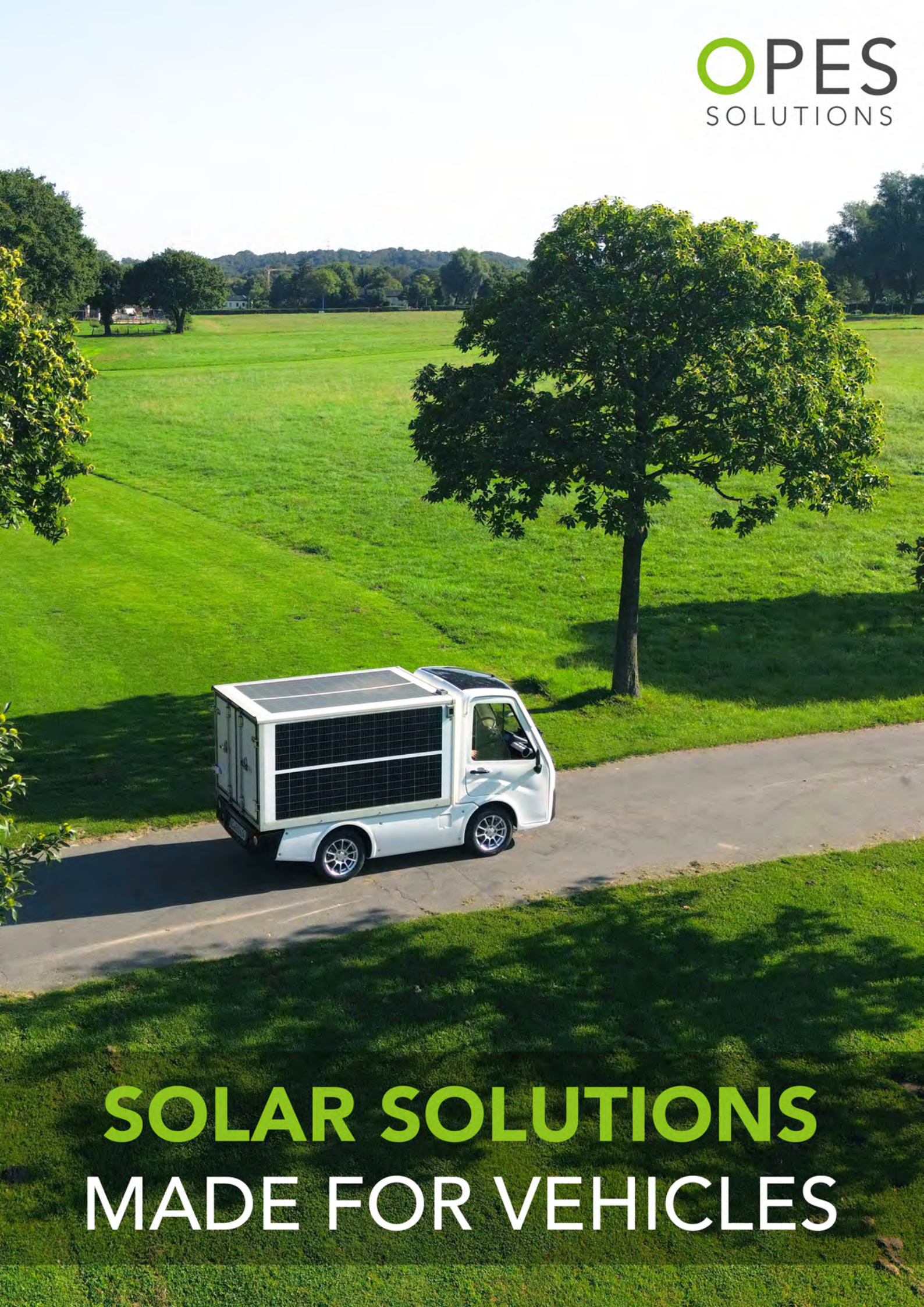
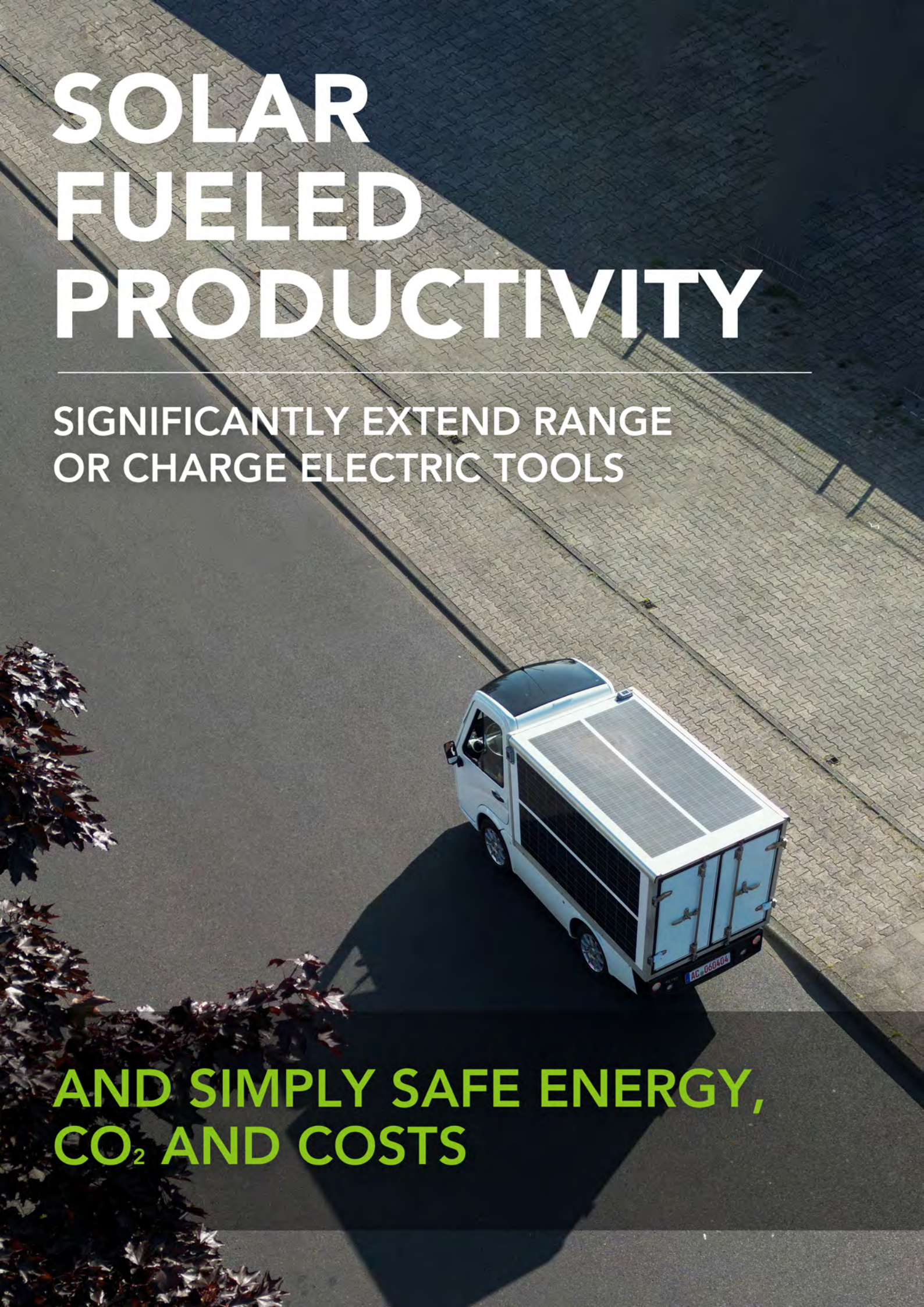
OPES
SOLUTIONS



SOLAR SOLUTIONS
MADE FOR VEHICLES

SOLAR FUELED PRODUCTIVITY

SIGNIFICANTLY EXTEND RANGE OR CHARGE ELECTRIC TOOLS



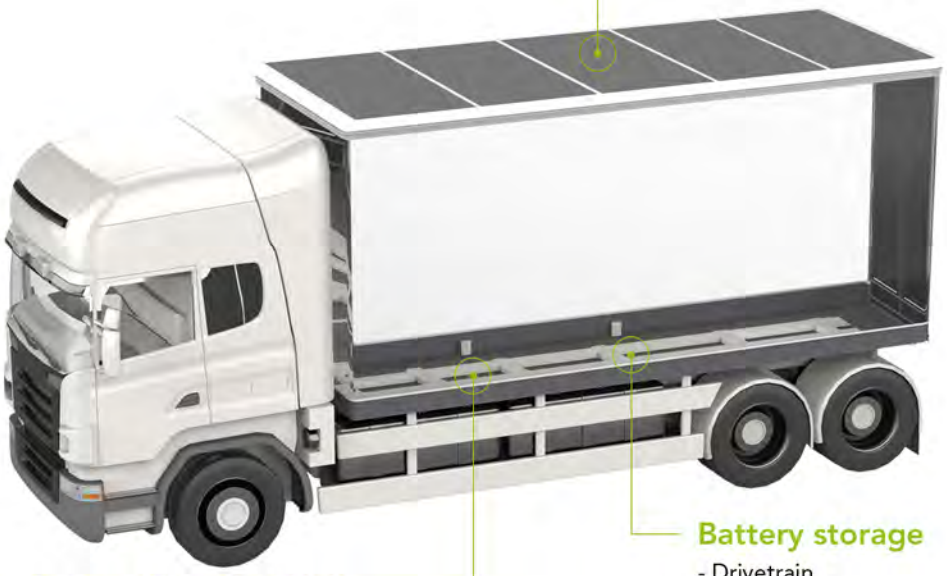
AND SIMPLY SAFE ENERGY, CO_2 AND COSTS

ENABLE HIGHER PRODUCTIVITY

UP TO 20%
MORE RANGE

UP TO 40 KM
EXTRA PER DAY

HOW IT WORKS



SolFlex Solar Panels
Installed quick and easily on the roof of the trailer

Battery Charging Unit
- MPPT Tracking for optimzed charging
- For High and Low Voltage
- CAN-Bus for integration in BMS

Battery storage
- Drivetrain
- Refrigeration
- Electric tools

USE SELF-GENERATED ENERGY

MEET SUSTANABILITY GOALS

ADD RANGE

SECURE COOLING

POWER TOOLS

REDUCE CHARGING STOPS

THE 1ST FLEXIBLE SOLAR PANEL
MADE FOR VEHICLES

	SFX 150 F	SFX 150 R
ELECTRICAL SPECIFICATION		
Cell Type	Mono crystalline	
Power Output (Pmp)	150W	
Short-Circuit Current (Isc)	6.57A	
Open-Circuit Voltage (Voc)	27.88V	
Current at Pmax (Imp)	6.27A	
Voltage at Pmax (Vmp)	24.24V	
Cell Efficiency	≥23%	
Electrical Tolerance	-5%~+10%	
MECHANICAL PARAMETERS		
Module Weight	2.5kg	
Module Dimension	1120 x 775 x 3mm	
Bending Radius	25°	
Operating Temperature	-40 - 95°C	
Quality		
Poduct Warranty	2 years	
Power Output Warranty	10 years / 80%	
Specific Tests	T-peel, waterproof, ice water shock, vibration, salt spray, hail, high pressure cleaning and many more	
Certificates	ISO 9001, ISO 14001, ISO 45001, IMDS listed	

OPM1500D

OPM1500E

Values at standard test conditions (STC). Specifications subject to technical changes.

*Other standard panels or custamization available

MARKET LEADING TECHNOLOGY

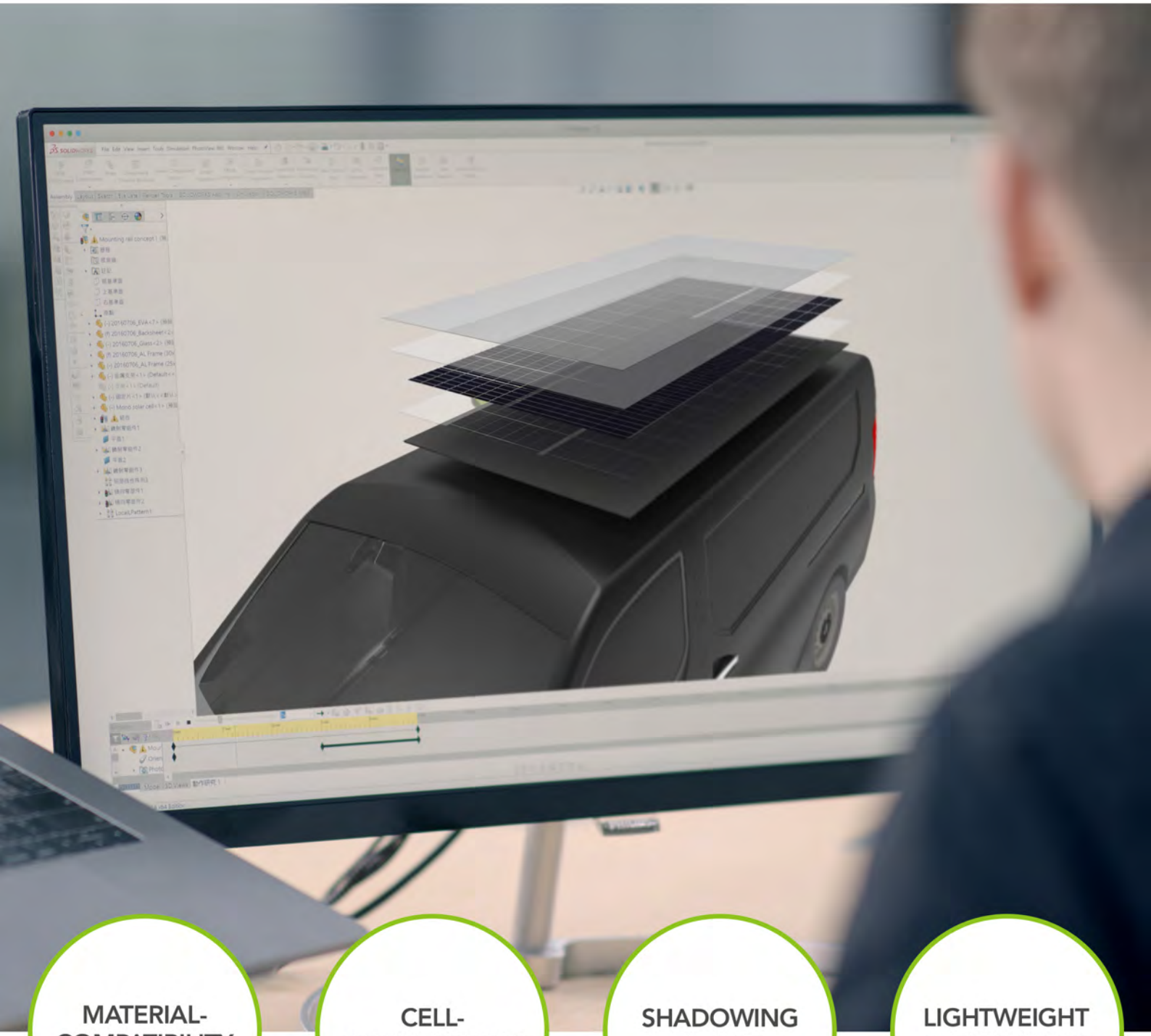
SolFlex is the first flexible solar module developed for vehicles. We understand the unique requirements of the automotive sector, which is why our solar modules undergo rigorous additional tests. These tests consider factors such as vibrations, ice water shock, or even high pressure cleaning. With trusted industry and research partners and in-house testing equipment, we not only meet industry standards, we define them.

The result is a flexible, lightweight solution with a robust and embossed surface that has already proven itself thousands of times on the road.

The frameless module is ultra-thin and 70% lighter than conventional solar panels. Cutting-edge features such as integrated bypass diodes and half-cell technology ensure optimal yields even in shaded and low irradiation conditions.

The pre-applied TESA tape is tested for typical vehicle surfaces. The predefined bonding not only ensures ideal rear ventilation and drainage of condensation water, but also fast installation. The junction box is safe from damage and provides an elegant overall appearance, as it is just as invisible as the cables on the rear side.

SOLAR MODULES
ENGINEERED FOR VEHICLES



MATERIAL-COMPATIBILITY

The bond between the module and the vehicle surface is crucial for performance. To ensure optimal impact resistance, ventilation, and response to temperature, we conducted extensive testing of our panels in combination with different materials.

CELL-CONNECTIONS

Solar modules are typically not subjected to vibrations, which is a crucial factor in the extended lifespan of our panels compared to conventional flexible solar panels. Our panels feature innovative joints that are resistant to vibrations and do not break.

SHADOWING & SIZE

Effciency is a crucial. When vehicles are in motion, shadows become more dynamic. Our smart diodes enhance effciency in such situations, while the unique size of the solar panel ensures optimal utilization of the available area.

LIGHTWEIGHT & THICKNESS

Our thin and lightweight panels comply with automotive regulations and offer excellent performance. In comparison to thin-flm technology, our modules deliver 30% more power while still benefitting from minimal drag. The vehicle height is barely affected.

MARKET LEADING OFF-GRID SOLAR MANUFACTURER

FACTORY IN GERMANY STARTING Q4 2024

Founded 2012
To realize the potential of solar energy and make it usable for every application

500 Employees
R&D and Business Development in Berlin, Shanghai & Hong Kong, Factory in Changzhou

13.000 m² Factory area
Self developed automation equipment for innovative production processes

>10 million modules
Leading output of solar panels in off-grid systems all over the world

50+ Patents in products and production
Strategic partnership with Fraunhofer Center CSP; Research Center in Germany & China.

OPES SOLUTIONS

10 YEARS 2012-2022

Solar – Right where it's needed

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