

# /// HUAWEI SONNENWAGEN - 2017

Mobility rethought! With our solar car, we are pursuing an approach that has not yet been commercially available on the road. We power our Huawei solar car purely with solar energy and use this energy to cover a distance of 3022 km across the Australian outback. The solar car features low weight, very high energy efficiency, and high-tech components. For example, in favor of high performance, the driver has to do without air conditioning.

## Dimensions

Length:	4,3 m
Breite:	1,7 m
Höhe:	1,1 m
Leergewicht:	212 kg

## Solar cells

Type of cells:	Mono cristalline silicone cells
Efficiency:	~ 23 %
Number of cells:	260 cells
Single Cell Power:	~ 3,5 W/cell
Total power:	~ 920 Watt Peak
Solar array size	4 m <sup>2</sup>

## Battery

Type of cells:	Li-Ionen cells with NMC technology
Capacity:	~ 5 kWh

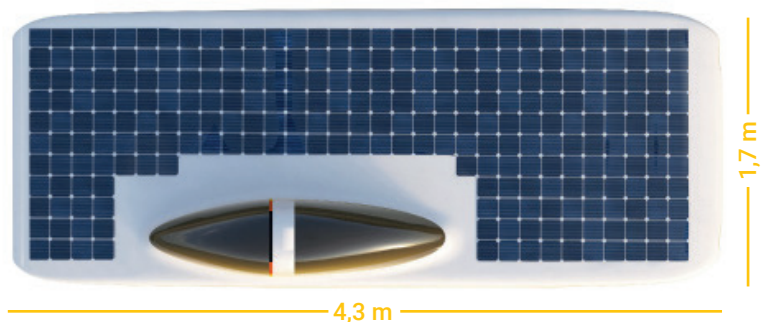
## Antrieb

Electric Motor:	Permanent magnet synchronous motor
Type of drive:	Wheel-hub motor without an transmission

Power:	~ 1,4 kW
Ø-speed.:	~ 70 km/h
Top speed.:	~ 140 km/h
Consumption:	~ 1,8 kWh/100km

## Other

$c_w$ -value:	< 0,18
Drivers:	1
Cooling only for the battery.	



## Sonnenwagen Aachen e.V.

Eilfschornsteinstraße 12 | 52062 Aachen | Germany  
kontakt@sonnenwagen.org | sonnenwagen.org