Technical details

SkyCarrier model	SkyCarrier 250	SkyCarrier 1000
Rotational axis	elevation (solar angle of arrival), single-axis tracking system, tracking through horizontal axis	
Rotational angle	+/- 30° to the horizontal	+/- 60° to the horizontal
Module	all common types and sizes of modules may be used	
Recorded power	up to 46,000 Wp*	up to 48,000 Wp*, depending on installed module surface area
	(*Watt peak = standard by which the power of solar cells and solar modules is measured), depending on the module type	
Installation area (width x height of standard modell)	247.05 m²; 30.50 m x 8.10 m (2,658.69 sq ft; 100.07 ft x 26.57 ft)	261.00 m² (1.65 m x 11.30 m = 18.65 m² per wing) (2,809.38 sq ft; 5.41 ft x 37.07 ft = 200.75 sq ft per wing), 14 wings in total, module surface area can be extended as desired
Height above clearance surface	approx. 7.60 m (24.93 ft)	approx. 2.20 m (7.22 ft)
Foundation	site-mixed concrete, two parts	site-mixed concrete or prefabricated concrete slabs
Control system	astronomical programmable logic control = PLC (via time and date, incremental encoder, daily zero-point calculation) with 14-day programmable adjustment	
Drive	two electronically synchronised motors with planetary gears	mechanically independent motors which are only linked electronically. Drive delivered via two rope drives, multi-stage planetary gears
Ground level elevation	up to 1,000 m (3,280.84 ft) above sea level	up to 1,500 m (4,921.26 ft) above sea level
Maximum building approval	structural design check by experts with a calculated safety factor of at least 1.6 tested by the Bavarian state Testing authority (LGA), CE certified	
Wind load	up to 140 km/h, (86.99 mph ~ 12 bft, corresponds to a hurricane), compliant with EN 1991-1-4:2005	
	determination of characteristic loads by the Institut für Industrie-Aerodynamik GmbH (IFI - Institute for Industrial Aerodynamics) at the Aachen Technical College	
Area of use	open spaces from 0 to 25 degrees of latitude, northern or southern hemisphere	