

3S Overhead

Versatile solar module for various overhead applications

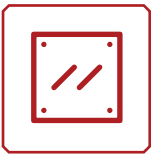
3S



Building integrated photovoltaics (BIPV)



Hail resistance class 4



Laminated safety glass



Frameless design for self-cleaning



Higher yields thanks to the bifacial factor



Swiss made



Fire class B Roof(t1)



196 Wp/m²

Low-carbon module



40 year weather resistance guarantee

100% produced with CO₂-neutral energy

80% performance guarantee over 25 years

TeraSlate® Overhead

The TeraSlate Overhead solar module is a glass-glass PV module specifically designed for overhead applications. It is suitable for various types of roofing, such as open structures, parking areas, or terraces. The module combines weather protection with energy generation, thereby supporting the efficient multi-use of space. The robust glass-glass design and certified suitability for overhead use ensure high safety and durability while meeting demanding architectural requirements. Developed and manufactured in Switzerland using carbon-neutral electricity, the TeraSlate module meets the highest standards of quality and sustainability.

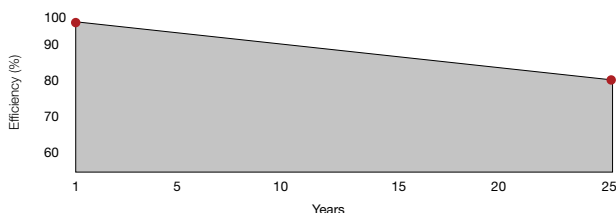
Electrical specifications	L		
	STC	BNPI 13.5%	BSI 30%
Nominal power (Wp)	225	250	275
Voltage Umpp (V)	27.5		
Current Imp (A)	8.1	9.0	10.0
Open-circuit voltage Uoc (V)	33.5	33.6	33.8
Short-circuit current Isc (A)	8.6	9.5	10.6
Module efficiency	19.6%	21.7%	23.9%
Max. system voltage (VDC)	1000		
Max. reverse current overload rating (A)	15		
Safety class	II		
Tolerance of power, current & voltage	± 3%		
Temperature coefficient Pmax (%/K)	-0.3527		
Temperature coefficient Uoc (%/K)	-0.2524		
Temperature coefficient Isc (%/K)	+0.0352		
Number of bypass diodes	3		
Bifaciality factor power (%)	80.77%		
Bifaciality factor Isc (%)	79.78%		
Bifaciality factor Uoc (%)	99.19%		

Electrical performance data at STC (1 000 W/m² front side, 0 W/m² back side, 25 °C, AM 1.5)
 Electrical performance data at BNPI 13.5% (1 000 W/m² front side, 135 W/m² back side, 25 °C, AM 1.5)
 Electrical performance data at BSI 30% (1 000 W/m² front side, 300 W/m² back side, 25 °C, AM 1.5)

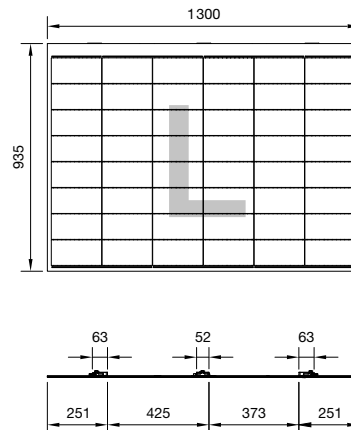
Mechanical specifications	L
	Length (mm)
Width (mm)	1300
Thickness (mm)	9
Weight (kg)	26.7
Design	Glass-Glass-Module
Glass*	4 mm + 4 mm semi-tempered solar glass
Quantity of half-cells	48
Cell type	G12 Perc half-cells
Junction box	3Qxy series (QC Solar)
Junction box cable	Solar cable H1Z2Z2-K, 4 mm ² , 1.4 m long (QC Solar)
Electrical connector	Original MC4 (Stäubli Electrical Connectors AG)
Hail resistance class VKF	HW 4 hailstones Ø 40 mm at 27.5 m/s
Maximum load (Tested compressive load and suction load according to IEC 61215)	5400 N/m ² (compressive load) 3600 N/m ² with 5 hooks (suction load)
Maximum load (Tested compressive load and suction load according to SIA 261)	2450 N/m ² (compressive load) 1630 N/m ² with 5 hooks (suction load)
Operating temperature	-40 °C to +85 °C

* Laminated safety glass (LSG) in accordance with DIBT approval

Performance guarantee over 25 years



Product warranty	10 years
Performance guarantee	1 year on the 97% of the minimum performance 25 years on the 80% of the minimum performance
Weather resistance guarantee	40 years



Certifications & standards	
Applied standards	IEC 61730:2016; IEC 61215:2021; SIA 2057; SIA 261
Fire class	DIN EN 13501-5: Broof(t1)
Fire class VKF	RF 2
Building permit	Laminated safety glass (LSG) DIN 18008, abZ Z-70.3-299

Packaging information	
Packaging	Reusable wooden pallets (empty weight 49 kg)
Number of modules	22 modules per pallet
Pallet size (L x W x H)	140 x 116 x 110 cm
Max. shipping weight	640 kg / pallet



This datasheet is not legally binding. The manufacturer reserves the right to make changes to product specifications and / or product features without prior notice. The most recent versions of all documents (GTCs, datasheets, warranties and installation manuals) can be found on our website at: www.3s-solar.com