

TeraSlate[®] roof

The original Swiss solar roof

3S – in the market for over 20 years

Experience of more than 20,000 photovoltaic systems

Developed and produced in Switzerland

Prolonged service life & excellent electricity yield

The TeraSlate[®] system

The new TeraSlate roof module is manufactured in Switzerland using carbon-neutral electricity and is set apart by its attractive and elegant design. The four combinable module sizes in our system enable you to optimise use of the roof surface. The frameless design makes the modules very easy to self-clean; they are also suitable for use in Alpine regions. The system construction with optimal rear ventilation generates maximum energy yields.



The 3S solar roof efficiently generates energy from sunlight. From photovoltaics to solar thermal energy and skylights, the TeraSlate system provides flexibility and integration to the highest technological and aesthetic standards. This makes it the optimal roof covering.

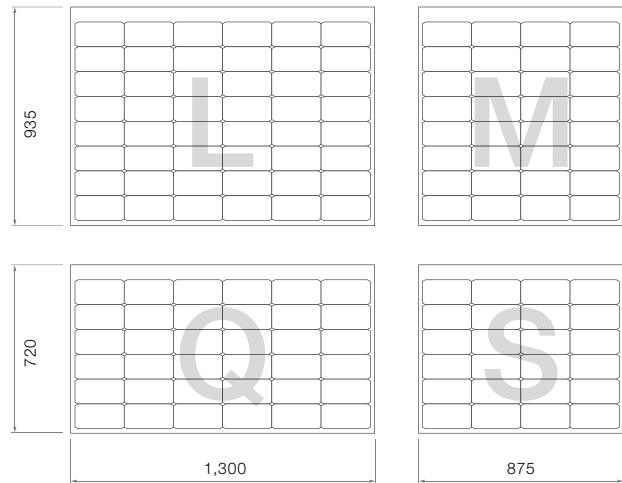
The TeraSlate system takes you a step forward and helps you make a personal contribution towards the energy transition.

Electrical specifications

	L	Q	M	S
Rated output	225 Wp	165 Wp	150 Wp	110 Wp
Voltage U_{mpp}	27.8 V	20.4 V	18.5 V	13.6 V
Current I_{mpp}	8.1 A			
Open circuit voltage U_{oc}	33.1 V	24.8 V	22.2 V	16.6 V
Short circuit current I_{sc}	8.6 A			
Efficiency	19.6%	18.9%	19.4%	18.8%
Maximum system voltage	1,000 V			
Reverse current breaking capacity	15 A			
Rated output tolerance	±3%			
Protection class	II			
No. of bypass diodes	3	3	2	2

Tolerance for current U_{oc} and short circuit current I_{sc} is ±3%
Electrical output data at STC (1,000 W/m², 25 °C, AM 1.5)

Dimensions



Mechanical specifications

	L	Q	M	S
No. of half-cut cells	48	36	32	24
Dimensions	1,300 x 935 x 6.5 mm	1,300 x 720 x 6.5 mm	875 x 935 x 6.5 mm	875 x 720 x 6.5 mm
Weight	17.7 kg	13.3 kg	11.8 kg	9.1 kg
Glass thickness	5 mm TSG solar glass			
Cell type	G12 PERC half-cut cells			
Junction box	QC junction box (3Qxy series)			
Connecting cable	QC Solar cable, 4 mm ² , length 1.4 m each			
Plug-in connector	Original MC4 (Stäubli Electrical Connectors AG)			
Maximum load	5,400 N/m ² (pressure)			
Tested pressure and suction loads to IEC 61215	8,000 N/m ² (Alpine pressure)			
	2,400 N/m ² (suction)			
Hail resistance class	Class 5 (hailstone diameter of 50 mm at 30.8 m/s (111 km/h) anticipated)			
Fire class EN	B _{ROOF} (t1) to DIN EN 13051-5			
Fire class VKF	RF1 to VKF, categorised as non-combustible top layer			

Guarantees and standards

Applied standards	IEC 61730:2016; IEC 61215:2016
Rainproofing	CEN/TR 15601
Product guarantee	10 years
Output guarantee	1 year at 97% of minimum output
	25 years at 80% of minimum output
Weather resistance guarantee	40 years
SENS eRecycling	incl. advance recycling fee

Temperature coefficients

$\alpha (I_{sc})$	+0.06%/K
$\beta (U_{oc})$	-0.3%/K
$\gamma (P_{mpp})$	-0.39%/K



Your installation partner:

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