sovello
Powering tomorrow

Photovoltaic Modules

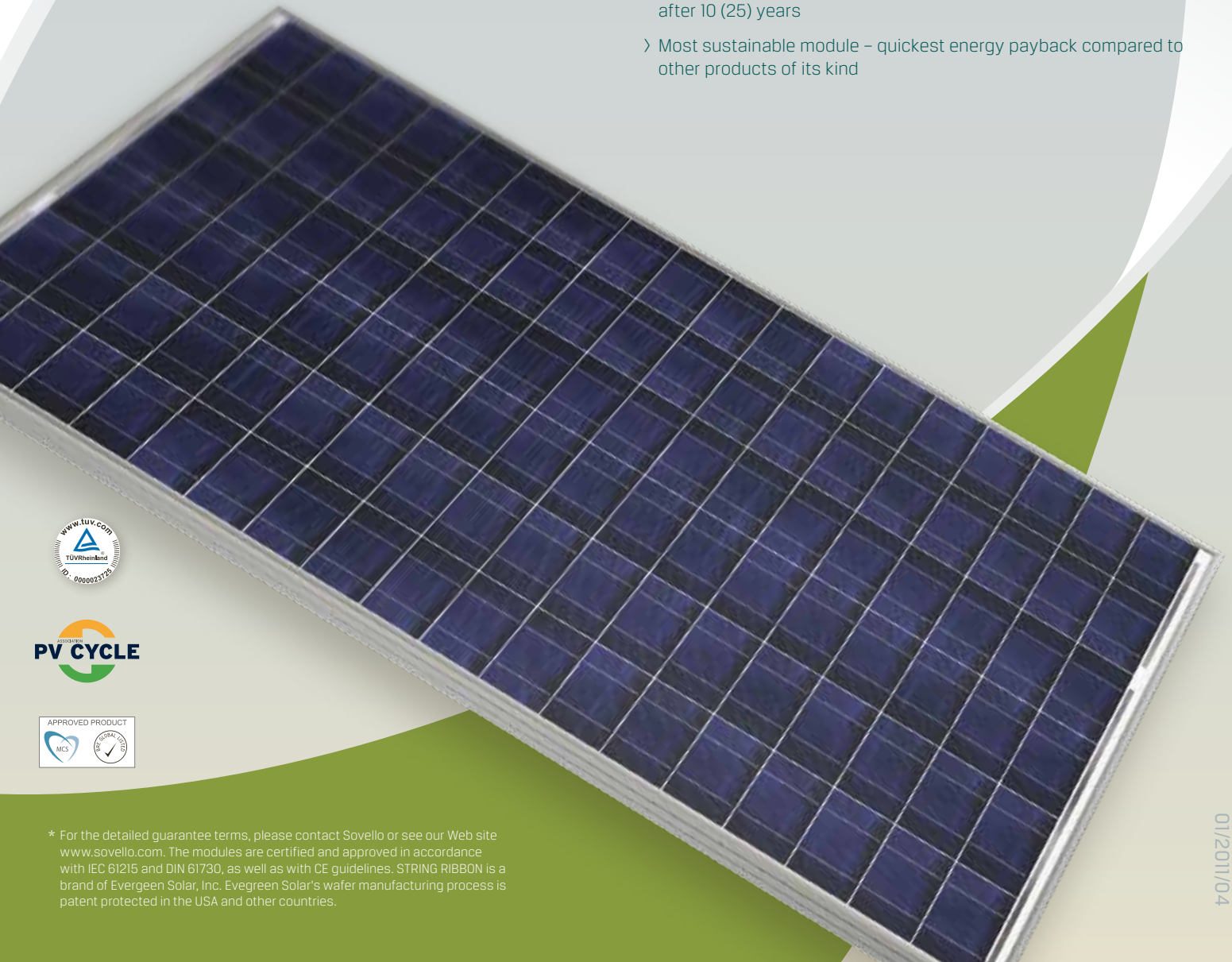
Sovello Pure Power T Series

High Voltage Configuration

Made in Germany

Sovello Pure Power solar modules are produced in Germany according to the highest quality standards in one of the world's most modern, fully integrated solar factories. Our modules are remarkably efficient, easy to operate, and are manufactured in a particularly environmentally friendly way thanks to the STRING RIBBON™ wafers, which feature excellent specific power output and smallest carbon footprint.

- Best energy efficiency with a high level of specific energy yield
- Particularly narrow output tolerance with at least 100 % guaranteed nominal output
- Easy installation thanks to torsion-resistant, double-walled module frames and low total module weight
- Maximum level of security thanks to a 10-year guarantee on workmanship and on at least 90 % (80 %) of the listed nominal output after 10 (25) years
- Most sustainable module – quickest energy payback compared to other products of its kind



* For the detailed guarantee terms, please contact Sovello or see our Web site www.sovello.com. The modules are certified and approved in accordance with IEC 61215 and DIN 61730, as well as with CE guidelines. STRING RIBBON is a brand of Evergeen Solar, Inc. Evegreen Solar's wafer manufacturing process is patent protected in the USA and other countries.

01/2011/04

Electrical Nominal Values

Standard Test Conditions (STC)[1]

		SV-T-190	SV-T-195	SV-T-200	SV-T-205
		High Voltage Configuration			
Nominal Power[2]	W	190	195	200	205
Output Tolerance	W	0/+5	0/+5	0/+5	0/+5
P_{mpp}, max.	W	194.9	199.9	204.9	209.9
P_{mpp}, min.	W	190.0	195.0	200.0	205.0
Module Efficiency	%	12.7	13.1	13.4	13.7
U_{mpp}	V	26.7	27.1	27.5	27.9
I_{mpp}	A	7.12	7.2	7.28	7.36
U_{oc}	V	32.8	32.9	33.2	33.1
I_{sc}	A	8.05	8.15	8.25	8.35

Nominal Operating Cells Temperature Conditions (NOCT)[3]

T NOCT	°C	45.2	45.2	45.2	45.2
P_{max}	W	138.8	142.5	146.1	149.8
U_{mpp}	V	24.4	24.8	25.1	25.5
I_{mpp}	A	5.68	5.74	5.80	5.87
U_{oc}	V	30.3	30.4	30.6	30.6
I_{sc}	A	6.52	6.60	6.68	6.76

[1] STC: 1,000 W/m² irradiance on module level, module temperature 25 °C and spectral distribution of irradiance acc. to Air Mass 1.5
[2] Power rating at standard test conditions (STC)
[3] NOCT: Equilibrium temperature at 800 W/m² irradiance on module level, air temperature 20 °C, wind velocity 1 m/s

Temperature Coefficients

γP_{mpp}	(%/°C)	-0.45
βU_{mpp}	(%/°C)	-0.42
αI_{mpp}	(%/°C)	-0.03
βU_{oc}	(%/°C)	-0.33
αI_{sc}	(%/°C)	0.06

System Design

Maximum countercurrent flow	18 A
Maximum system voltage	1,000 V

Poor lighting conditions

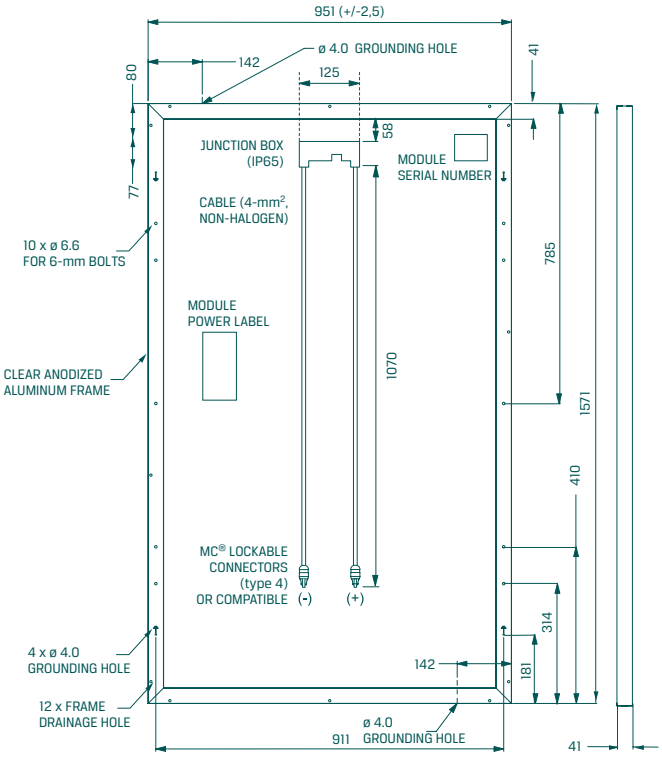
In case of an irradiance of 200 W/m² and a module temperature of 25 °C, the reduction of the relative level of efficiency will be less than 4 % with regard to STC conditions.

Mechanical Stability

High level of guaranteed durability in wind and snow up to 5.4 kN/m².

ELECTRICAL EQUIPMENT
CHECK WITH YOUR INSTALLER

Mechanical Specifications



All dimensions in mm; module weight 17.4 kg.

This product was manufactured using the following materials: 108 polycrystalline silicon solar cells, anti-reflective tempered solar glass, EVA encapsulant, polymer back-skin, and a double-walled, anodized aluminum frame. The product's packaging has been tested in accordance with standard 2B of the International Safe Transit Association (ISTA) and the DIN EN ISO standards 12048, 13355, 2244, and 10531. All specifications in this product data sheet conform to EN 50380. For more information on the approved installation and use of this product, please see the Sovello safety, installation, and operating manual.

Due to continuous innovation, research, and product improvement, the specifications in this product information sheet are subject to change without prior notice. No legal claims may be made based on this product data sheet. Sovello assumes no liability with regard to the use of the information found here or the consequences thereof.

Partner

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