

Sovello Pure Power Module

SV-T-Series Low Voltage Configuration

Electrical Nominal Values

Standard Test Conditions (STC)¹

		SV-T-190	SV-T-195	SV-T-200	SV-T-205
		Low 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	17.4	17.6	17.7	17.8
I _{mpp}	A	10.92	11.08	11.30	11,52
U _{oc}	V	21.5	21.7	21.8	21.9
I _{sc}	A	11.95	12.11	12.26	12.42

Nominal Operating Cells Temperature Conditions (NOCT)³

	°C	45.2	45.2	45.2	45,2
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	15.9	16.1	16.2	16,3
I _{mpp}	A	8.71	8.83	9.01	9,18
U _{oc}	V	19.8	20.0	20.1	20,2
I _{sc}	A	9.69	9.82	9.94	10,07

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

γ P _{mpp}	(%/°C)	- 0.45
β U _{mpp}	(%/°C)	- 0.42
α I _{mpp}	(%/°C)	- 0.03
β U _{oc}	(%/°C)	- 0.33
α I _{sc}	(%/°C)	0.06

System Design

Number of solar cells	108
Bypass diodes	2x Typ Schottky UCQ530A04, 40 V, 30 A
Maximum series fuse / reverse current	30 A
Maximum system voltage	1,000 V

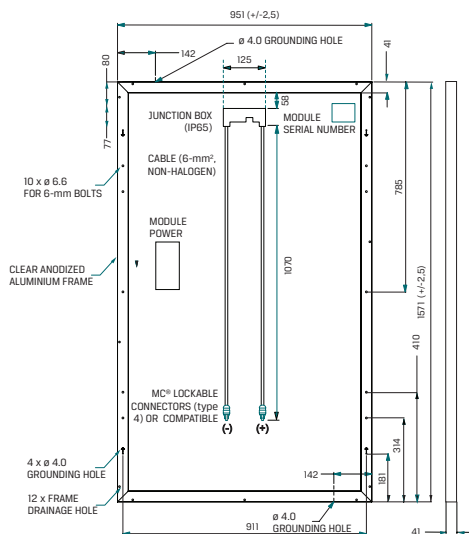
Poor lighting conditions

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.

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.

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