



■ **Product Features**

Power tolerance -0/+4,9 W
Power output range 170-190 Wp
Premium raw materials
Premium workmanship

■ **Certificates**

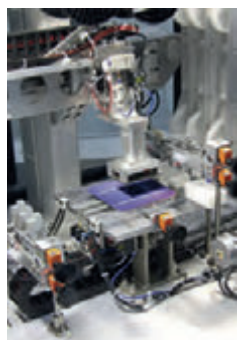
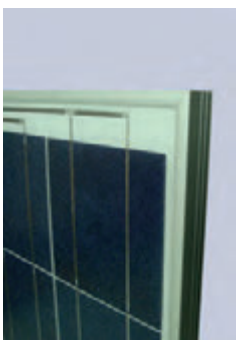
Product quality EN IEC 61215:2005
Product safety EN IEC 61730-2:2007
Quality management EN ISO 9001:2008
Environmental management EN ISO 14001:2009
Occupational health and safety management
OHSAS 18001:2007

■ **Warranty**

10 years manufacturing defects
12 years limited, 90% output power
25 years limited, 80% output power

SOLVIS photovoltaic modules are high efficiency modules produced from top quality, proven and certified raw materials. Our standard 48 cell module provides high output power, extraordinary durability in harsh conditions, as well as long-term electrical stability. Each module is inspected in detail and labeled before delivery. SOLVIS is a PV module producer based in Croatia. Throughout the partnership with our distributors, we export most of our products for the European clients. Production of high quality photovoltaic modules is based on strict quality control criteria applied in each stage of the manufacturing process. This results in a 25-year limited warranty on output power.

We are dedicated to production of environmentally friendly and affordable source of energy taking greater responsibility for the well being of the society. Production of pertinent modules is a technological challenge demanding engineering and manufacturing expertise. The final product is largely the result of our own production development and research. Constant investments in research and development are the way how SOLVIS is upgrading its technology and products, and ensuring the competitiveness of the company on the global market.



Performance under standard test conditions (1000 W/m², 25 °C, AM 1.5 according to EN 60904-3)

MODEL		SV48-170	SV48-175	SV48-180	SV48-185	SV48-190
Peak power	P _{MPP} [W]	170	175	180	185	190
Peak power tolerance	[W]	-0/+ 4,9				
Short circuit current	I _{sc} [A]	7,97	8,08	8,20	8,31	8,42
Open circuit voltage	U _{oc} [V]	28,5	28,8	29,2	29,5	29,8
Rated current	I _{MPP} [A]	7,47	7,59	7,66	7,78	7,89
Rated voltage	U _{MPP} [V]	22,8	23,1	23,5	23,8	24,1
Current and voltage tolerance	[%]	± 10				

THERMAL CHARACTERISTICS

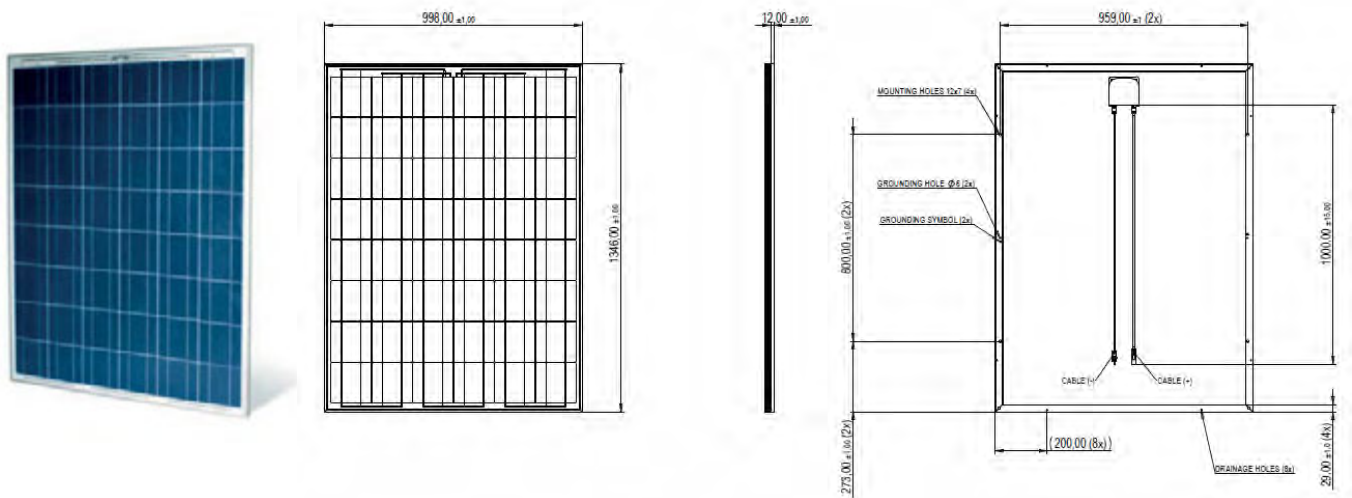
Nominal operating cell temperature (NOCT)	[°C]	48,2 ± 2				
Temperature coefficient of P _{MPP}	[%/K]	-0,41				
Temperature coefficient of I _{sc}	[%/K]	0,05				
Temperature coefficient of U _{oc}	[%/K]	-0,29				

MECHANICAL DATA

Dimensions (H x W x D)	[mm]	1346 x 998 x 35				
Weight	[kg]	18				
Solar cells		48 cells, polycrystalline Si, 156 x 156 mm				
Cell encapsulation		Ethylene vinyl acetate (EVA)				
Front		Tempered solar glass, 4 mm				
Back		Composite polyester film				
Frame		Anodized aluminum frame with twin-wall profile and drainage holes				
Junction box		Tyco SOLARLOK with 3 bypass diodes, IP65				
Cable and connectors		Solar cable 4 mm ² , length 1000 mm, Tyco SOLARLOK connectors				

OPERATING CONDITIONS

Temperature range	[°C]	-40 to +85				
Maximum system voltage	[V]	1000				
Maximum surface load capacity	[Pa]	Tested up to 5400 Pa (Snow load test)				
Resistance against hail		Maximum diameter of 25 mm with impact speed of 23 m/s				



*All dimensions are in mm

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