

**Electrical data (STC)**

STC (Standard Test Conditions): 1000W/m<sup>2</sup>, (25 ±2)°C, AM 1,5 in accordance with EN60904-3

Module Type		230ST	235ST	240ST	245ST	250ST
Rated Power:	P <sub>mp</sub>	230	235	240	245	250
Open Circuit Voltage (U <sub>oc</sub> ):	V	37,30	37,36	37,40	37,45	37,78
Short Circuit Current (I <sub>sc</sub> ):	A	8,45	8,50	8,60	8,63	8,72
Max. Power Voltage (U <sub>mp</sub> ):	V	29,50	29,61	29,75	30,10	30,4
Max. Power Current (I <sub>mp</sub> ):	A	7,79	7,95	8,08	8,14	8,22
Efficiency		14%	14,3%	14,6%	14,9%	15,2%

**Electrical data (NOCT)**

NOCT (Normal Operating Cell Temperature): 800W/m<sup>2</sup>, NOCT, AM 1,5

Module Type		230ST	235ST	240ST	245ST	250ST
Capacity rating	P <sub>mp</sub>	165,5	169,2	172,8	176,4	180
Open Circuit Voltage (U <sub>oc</sub> ):	V	33,36	33,44	33,60	33,66	34
Short Circuit Current (I <sub>sc</sub> ):	A	6,66	6,73	6,84	6,90	6,97
Rated Voltage (U <sub>mp</sub> ):	V	26,39	26,41	26,77	27,09	27,36
Rated Current (I <sub>mp</sub> ):	A	6,28	6,42	6,46	6,51	6,58

**Additional electrical data**

Classification range (positive classification)	W	-0/+3
Measurement accuracy of P <sub>mp</sub> under STC	%	-2,5/+2,5
Max. System Voltage		1000V
Reverse Current		20A

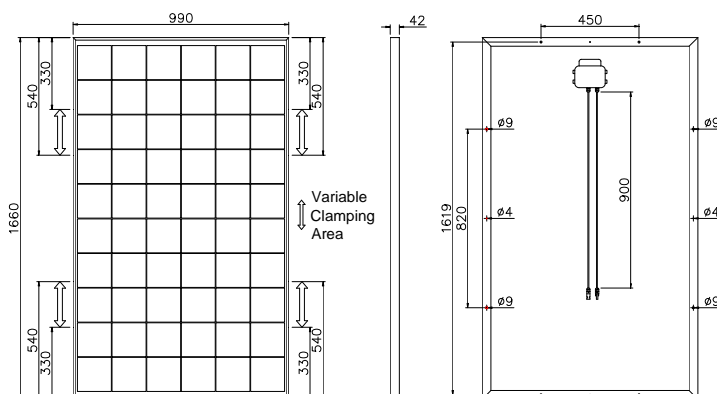
**Temperature Coefficients (T<sub>c</sub>)**

I <sub>sc</sub> / K	+0,0672%
U <sub>oc</sub> / K	-0,3110%
P <sub>mp</sub> / K	-0,4063%



**Basic Data**

Length x width x height	mm	1660 x 990 x 42
Weight	Kg	21
Number of Cells		60 / 3bus bar
Cell size	mm <sup>2</sup>	156 x 156
Cell Material		Multi-crystalline Si
Cell encapsulation		EVA (Ethylene Vinyl Acetate)
Front sheet		Tempered prismatic glass, low iron contents 3,2 mm
Back Sheet (white/white)		PET (Polyethylene Terephthalate)
Frame material		Extruded Anodized Aluminum 42 mm
Cable "Flex-Sol-XL"	mm	Length 900 / Ø4mm <sup>2</sup>
Connectors		MC4
IP class		IP65
Bypass diodes		3 (nominal current 12A)



**Permissible operating conditions**

Temperature range	-40°C to +85°C
NOCT	47°C
Max. surface load capacity	Tested up to 5400 Pa according TÜV
Resistance against impact	Max. Diameter of 28mm, 86 km/h

Performance Warranty: 10 years with max. loss of 10% on Power Rating  
 Performance Warranty: 25 years with max. loss of 20% on Power Rating  
 Product Warranty: 10 years

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