

Electrical data (STC)

STC (Standard Test Conditions): 1000W/m², (25 ±2)°C, AM 1,5 in accordance with EN60904-3

Module Type		230ST	235ST	240ST	245ST	250ST
Rated Power:	P _{mp}	230	235	240	245	250
Open Circuit Voltage (U _{oc}):	V	37,30	37,36	37,40	37,45	37,78
Short Circuit Current (I _{sc}):	A	8,45	8,50	8,60	8,63	8,72
Max. Power Voltage (U _{mp}):	V	29,50	29,61	29,75	30,10	30,4
Max. Power Current (I _{mp}):	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/m², NOCT, AM 1,5

Module Type		230ST	235ST	240ST	245ST	250ST
Capacity rating	P _{mp}	165,5	169,2	172,8	176,4	180
Open Circuit Voltage (U _{oc}):	V	33,36	33,44	33,60	33,66	34
Short Circuit Current (I _{sc}):	A	6,66	6,73	6,84	6,90	6,97
Rated Voltage (U _{mp}):	V	26,39	26,41	26,77	27,09	27,36
Rated Current (I _{mp}):	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 _{mp} under STC	%	-2,5/+2,5
Max. System Voltage		1000V
Reverse Current		20A

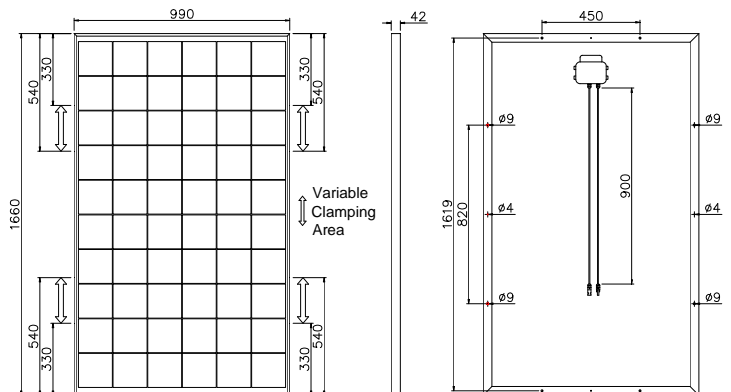
Temperature Coefficients (T_c)

I _{sc} / K	+0,0672%
U _{oc} / K	-0,3110%
P _{mp} / 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 ²	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 ²
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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