PHOTOVOLTAIC SOLAR PANELS

SITECNO GROUP
Energy, Efficiency, Innovation

1. POSITIVE POWER TOLERANCE
Photovoltaic modules from SITECNO have an outstanding positive power tolerance of up to +10 Wp.

2. FULLY INTEGRATED PRODUCTION
From the manufacture of poly-silicon to the production of ingots, silicon wafers and solar cells to the integration of PV modules, the manufacturing process at SITECNO is gapless.

3. RESISTANCE TO THE ELEMENTS
Every SITECNO PV module must operate reliable for decades, and in all type of weather and under all temperature fluctuations. Therefore, SITECNO solar modules are subjected to the most demanding load tests.

4. MATERIAL CONTROL
SITECNO modules are manufactured using only the best materials. An important basis for this is the regular monitoring of all suppliers.

5. MAINTENANCE
Since there are no parts that suffer wear and tear, SITECNO modules are virtually maintenance free.

6. FLEXIBILITY OF USE
SITECNO modules have been proven for the most diverse uses from small rooftop systems up to mega watt power plants on open land. Also, salt spray and ammonia tests expressly permit the use of SITECNO modules close to the sea and on agricultural land.

SITECNO MODULES CONVINCES THROUGH PERFORMANCE

Due to the unique combination of components, the high-efficiency modules from SITECNO are particularly powerful. With the high efficiency, the SITECNO offers maximum performance compared to the small overall area required. This also means: less effort and less material for installation. This increase in efficiency and the long-term high energy yields of SITECNO ensure efficient operation of your photovoltaic system. The quality of SITECNO module is continuously tested and confirmed by independent institutes. SITECNO modules are stored with a positive power classification. The performance is guaranteed by SITECNO for 25 years, the product guarantee is 10 years.

SITECNO MODULE Polycrystalline

SITECNO MODULE Monocrystalline

SITECNO MODULE BIPV

CERTIFIED SAFETY FOR PRODUCTIVE DECADE

Damp-Heat Test IEC 61215
Result: The modules exceed the requirements by the factor of three in regard to environments with intense damp/heat.

Thermal Cycling Test IEC 61215
Result: The modules exceed the requirements in regard to temperature fluctuation and three times extended performance time.

Mechanical Load Test IEC 61215
Result: SITECNO PV-modules' structural engineering sustains above-average loads.

- Extensive quality management through production according to international quality and environmental standards as well as strict internal examinations.
- Consistently high cell quality through strict quality examinations by high-resolution electro-luminescence and infrared measurements.
- Strict quality examinations of the supplied components and each manufacturing step through optical and electronic test stations along the whole manufacturing line.
- 10 years product and 25 years performance guarantee
- Proper recycling and all sold modules through full membership in the PV Cycle association
- Intelligent and perfectly matched systems and services from the technical and economical plant layout up to the factory service
- Worldwide known and certified through VDE (IEC 61215 Ed.2, IEC 61730-1 Ed.1 and IEC 61730-2 Ed.1)

Solar PV module SI-36M

Electrical data (STC)			SI-36M95	SI-36M100	SI-36M105
Rated Power	P_{MPP}	[W]	95	100	105
Rated voltage	V_{MPP}	[V]	18	18.6	18.7
Rated current	I_{MPP}	[A]	5.28	5.38	5.61
Open-circuit voltage	V_{OC}	[V]	22.5	22.7	22.8
Short circuit current	I_{SC}	[A]	5.78	5.90	6.16
Efficiency	η	[%]	14.6	15.4	15.8

Electrical values measures under standard test conditions (STC): 1000 W/m² ; 25°C; AM 1.5

Electrical data (NOCT)			SI-36M95	SI-36M100	SI-36M105
Power	P_{MPP}	[W]	76	80	84
Voltage	V_{MPP}	[V]	16.2	16.74	16.83
Current	I_{MPP}	[A]	4.22	4.30	4.48
Open-circuit voltage	V_{OC}	[V]	20.2	20.43	20.52
Short-circuit current	I_{SC}	[A]	4.62	4.72	4.92
Efficiency	η	[%]	13.1	13.8	14.2

Electrical values measures under operating conditions of cells: 800 W/m²; 20°C; AM 1.5; wind 1 m/s
NOCT: 45°C (nominal operating cell temperature)

Additional electrical data		
Reduction of STC efficiency from 1000 W/m2 to 200 W/m2	[%] rel.	<4
Classification range (positive classification)	[W]	0/+4.99

Loads		
Max. module pressure load	[Pa]	5400
Max. module suction load	[Pa]	5400
Max. system voltage	[V_{DC}]	1000
Reverse current load I_R	[A]	15

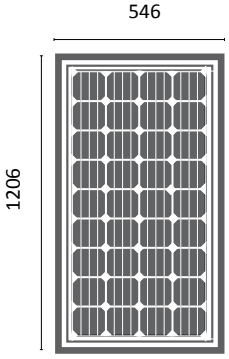
Mechanical load acc. to IEC/EN 61215

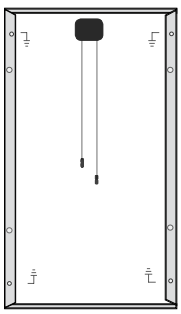
Temperature coefficients			
Temperature coefficient I_{SC}	$\alpha(I_{SC})$	[%/k]	+0.05
Temperature coefficient V_{OC}	$\beta(V_{OC})$	[%/k]	-0.38
Temperature coefficient P_{MPP}	$\gamma(P_{MPP})$	[%/k]	-0.47

Basic modules data		
Length x width x height	[mm²]	1206 x 546 x 35
Weight	[kg]	19
Number of cells		36
Cell size	[mm²]	125 x 125
Cell material		Monocrystalline Si
Front sheet		Solar glass (TSG)
Back sheet		Polymer sheet
Frame material		Al alloy

Basic data junction box		
Length x width x height	[mm²]	148 x 123 x 28
IP class		IP65
Cable length	[mm]	850 (+), 850 (-)
Connectors		MC4
Bypass diodes		3

Measurement tolerance of P_{MPP} under STC ±3%. Accuracy of other electrical values ±10%.





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