

Technical Data

Electrical data

Electrical data refer to Standard Test Conditions (STC):
Irradiance 1000 W/m², spectrum Air Mass 1.5 and cell temperature 25°C



Nominal power [Wp]	P _{nom}	210	217	225
Voltage at nominal power [V]	U _{mpp}	29.3	29.6	29.8
Current at nominal power [A]	I _{mpp}	7.16	7.33	7.55
Open-circuit voltage [V]	U _{oc}	36.1	36.4	36.7
Short-circuit current [A]	I _{sc}	7.95	8.10	8.24
Modular efficiency level (%)	η	12.6	13.0	13.4

Rating tolerance for power output is ± 4 % and rating tolerance for all other parameters is ± 10 %.

Data at normal operating cell temperature (NOCT)

Irradiance 800 W/m², spectrum Air Mass 1.5, windspeed 1m/ s and cell temperature 20°C



Nominal power [Wp]	P _{nom}	151	156	161
Voltage at nominal power [V]	U _{mpp}	26.4	26.7	26.9
Open-circuit voltage [V]	U _{oc}	33.0	33.2	33.5
Short-circuit current [A]	I _{sc}	6.87	7.00	7.12
Temperature [°C]	T _{NOCT}	47.2	47.2	47.2

Rating tolerance for power output is ± 4 % and rating tolerance for all other parameters is ± 10 %.

Temperature coefficients



Power [%/K]	T _K (P _n)	-0.47	-0.47	-0.47
Open-circuit voltage [mV/K]	T _K (U)	-121	-122	-123
Short-circuit current [mA/K]	T _K (I)	2.39	2.43	2.47

Characteristic data



Solar cells per module	60
Cell type	MAIN-Iso (polycrystalline silicon, 156 x 156 mm ² , full-square)
Connection	Junction Box IP65 with 3 bypass diodes, solar cable (length: 1.1 m, diameter: 4 mm ²) with Tyco Solarlok Interconnection
Dimensions	
junction box [mm]	110 x 115 x 25
Front panel	low iron solar glass 4.0 mm
Frame material	anodised aluminium

Dimensions and weight



Dimensions [mm]	1,685 x 993 (tolerance ± 3 mm)
Thickness [mm]	50 (tolerance ± 1 mm)
Weight [kg]	approx. 23.0

Limits



System voltage [V _{DC}]	1000
Maximum reverse current I _R [A]*	20
Operating module temperature [°C]	-40... +85
Maximum load (to IEC 61215 Ed. 2)	Pressure: 5,400 N/m ² or 550 kg/m ²
Application classification (to IEC 61730)	A
Fire classification (to IEC 61730)	C

* No external current greater than U_{oc} shall be applied to the module.

Permission and certificates



The modules are certified to IEC 61215 ed. 2 and IEC 61730, Electrical Protection Class II and the CE-guidelines.

The **installation manual** contains additional information on installation and operation.

All information complies with the requirements of the standard EN 50380.



MANAGEMENTSYSTEM
Certified by DQS according to
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