

MONOCRYSTALLINE SOLAR MODULE

Q.PEAK S 200-210

Maximum power and appearance on small space

The monocrystalline Q.PEAK S solar module is the perfect combination of power and appearance on small roofs. Together with our standard Q.PEAK-G2 module, its 48 cell design allows for an optimal utilisation of every roof. Made in Europe, Q.PEAK S boasts all that German engineering by Q.CELLS has to offer including our unique triple Yield Security.

YOUR EXCLUSIVE TRIPLE YIELD SECURITY

- **Anti PID Technology (APT)** reliably prevents power loss resulting from unwanted leakage currents (potential-induced degradation)¹.
- **Hot-Spot Protect (HSP)** prevents yield losses and reliably protects against module fire.
- **Traceable Quality (Tra.Q™)** is the ‚Finger Print‘ of a solar cell. Tra.Q™ ensures continuous quality control throughout the entire production process from cells to modules while making Q.CELLS solar modules forgery proof.

ONE MORE ADVANTAGE FOR YOU

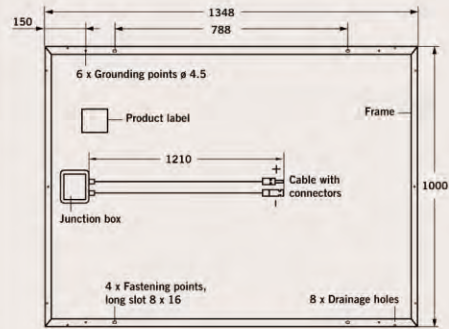
- **Improved energy yield:** The actual output of all Q.CELLS solar modules is up to 5 Wp higher than the nominal power thanks to positive sorting.
- **Controlled quality:** Q.CELLS tests its solar modules in the world's largest module testing center at head office in Thalheim, Germany, longer and more stringently than prescribed in the standards.
- **Guaranteed performance:** Q.CELLS offers the best warranties on the market. A 10-year product warranty plus a 25-year linear performance warranty².



¹ APT test conditions: Cells at -1000 V against grounded, with conductive metal foil covered module surface, 25 °C, 168 h (TUV test conditions)
² See data sheet on rear for further information.

MECHANICAL SPECIFICATION

Format	1348 mm x 1000 mm x 50 mm (including frame)
Weight	16 kg
Front Cover	3.2 mm thermally pre-stressed solar glass
Back Cover	Composite film
Frame	Black anodised aluminum
Cell	6 x 8 monocrystalline solar cells
Junction box	116 mm x 153 mm x 20 mm Protection class IP 68, with bypass diodes
Cable	4 mm ² Solar cable; (+) 1210 mm, (-) 1210 mm
Connector	Yamaichi Y-SOL4, IP 68



ELECTRICAL CHARACTERISTICS

PERFORMANCE AT STANDARD TEST CONDITIONS (STC: 1000 W/m², 25 °C, AM 1.5 G SPECTRUM)¹

NOMINAL POWER (+5/-0 W)		[W]	200	205	210
Average Power	P_{MPP}	[W]	202.5	207.5	212.5
Short Circuit Current	I_{SC}	[A]	9.07	9.14	9.21
Open Circuit Voltage	V_{OC}	[V]	29.76	30.15	30.53
Current at P_{MPP}	I_{MPP}	[A]	8.42	8.53	8.63
Voltage at P_{MPP}	V_{MPP}	[V]	24.04	24.33	24.62
Efficiency (Nominal Power)	η	[%]	≥ 14.8	≥ 15.2	≥ 15.6

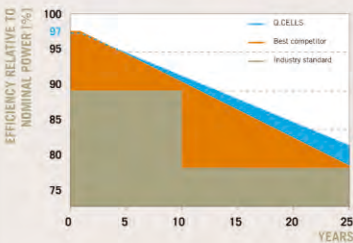
PERFORMANCE AT NORMAL OPERATING CELL TEMPERATURE (NOCT: 800 W/m², 47 ± 3 °C, AM 1.5 G SPECTRUM)²

NOMINAL POWER (+5/-0 W)		[W]	200	205	210
Average Power	P_{MPP}	[W]	147.80	151.45	155.10
Short Circuit Current	I_{SC}	[A]	7.32	7.38	7.43
Open Circuit Voltage	V_{OC}	[V]	27.33	27.69	28.04
Current at P_{MPP}	I_{MPP}	[A]	6.73	6.81	6.89
Voltage at P_{MPP}	V_{MPP}	[V]	21.95	22.23	22.50

¹ Measurement tolerances STC: ± 3% (P_{MPP}); ± 10% (I_{SC}, V_{OC}, I_{MPP}, V_{MPP})

² Measurement tolerances NOCT: ± 5% (P_{MPP}); ± 10% (I_{SC}, V_{OC}, I_{MPP}, V_{MPP})

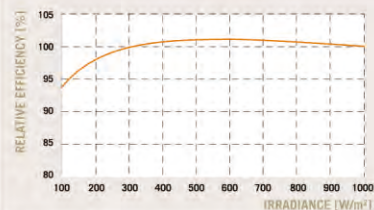
Q.CELLS PERFORMANCE WARRANTY



At least 97% of nominal power during first year. Thereafter max. 0.6% degradation per year.
At least 92% of nominal power after 10 years.
At least 83% of nominal power after 25 years.

All data within measurement tolerances.
Full warranties in accordance with the warranty terms of the Q.CELLS sales organization of your respective country.

PERFORMANCE AT LOW IRRADIANCE



The typical change in module efficiency at an irradiance of 200 W/m² in relation to 1000 W/m² (both at 25 °C and AM 1.5 G spectrum) is -2% (relative).

TEMPERATURE COEFFICIENTS (AT 1000 W/m², 25 °C, AM 1.5 G SPECTRUM)

Temperature Coefficient of I_{SC}	α	[%/K]	+0.04	Temperature Coefficient of V_{OC}	β	[%/K]	-0.33
Temperature Coefficient of P_{MPP}	γ	[%/K]	-0.43				

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage V_{sys}	[V]	1000	Safety Class	II
Maximum Reverse Current I_r	[A]	20	Fire Rating	C
Wind/Snow Load (in accordance with IEC 61215)	[Pa]	5400	Permitted module temperature on continuous duty	-40 °C up to +85 °C

QUALIFICATIONS AND CERTIFICATES

VDE Quality Tested, IEC 61215 (Ed.2); IEC 61730 (Ed.1), Application class A
This data sheet complies with DIN EN 50380.



PARTNER

NOTE: Installation instructions must be followed. See the installation and operating manual or contact the technical service for further information on approved installation and use of this product.