

Q.PRO-G4/SC 255-265

POLYCRYSTALLINE SOLAR MODULE

The new Q.PRO-G4/SC is the reliable evergreen for all applications, with a black Zep Compatible™ frame design for improved aesthetics, optimized material usage and increased safety. The 4th solar module generation from Q CELLS has been optimised across the board: improved output yield, higher operating reliability and durability, quicker installation and more intelligent design.

INNOVATIVE ALL-WEATHER TECHNOLOGY

- Maximum yields with excellent low-light and temperature behaviour.
- Certified fully resistant to level 5 salt fog

ENDURING HIGH PERFORMANCE

- Long-term Yield Security due to Anti PID Technology¹, Hot-Spot Protect, and Traceable Quality Tra.Q™.
- Long-term stability due to VDE Quality Tested – the strictest test program.

SAFE ELECTRONICS

- Protection against short circuits and thermally induced power losses due to breathable junction box and welded cables.

THE IDEAL SOLUTION FOR:



Rooftop arrays on residential buildings

PROFIT-INCREASING GLASS TECHNOLOGY

- Reduction of light reflection by 50 %, plus long-term corrosion resistance due to high-quality
- Sol-Gel roller coating processing.

EXTENDED WARRANTIES

- Investment security due to 12-year product warranty and 25-year linear performance warranty².

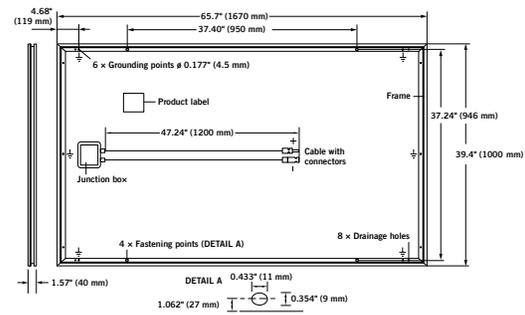


¹ APT test conditions: Cells at -1000V against grounded, with conductive metal foil covered module surface, 25°C, 168h

² See data sheet on rear for further information.

MECHANICAL SPECIFICATION

Format	65.7 in × 39.4 in × 1.57 in (including frame) (1670 mm × 1000 mm × 40 mm)
Weight	44.09 lb (20.0 kg)
Front Cover	0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodized ZEP compatible frame
Cell	6 × 10 polycrystalline solar cells
Junction box	Protection class IP67, with bypass diodes
Cable	4 mm ² Solar cable; (+) ≥ 47.24 in (1200 mm), (-) ≥ 47.24 in (1200 mm)
Connector	Amphenol, Helios H4 (IP68)



ELECTRICAL CHARACTERISTICS

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

POWER CLASS (+5W/-0W)	[W]	255	260	265
Nominal Power	P_{MPP} [W]	255	260	265
Short Circuit Current	I_{SC} [A]	9.07	9.15	9.23
Open Circuit Voltage	V_{OC} [V]	37.54	37.77	38.01
Current at P_{MPP}	I_{MPP} [A]	8.45	8.53	8.62
Voltage at P_{MPP}	V_{MPP} [V]	30.18	30.46	30.75
Efficiency (Nominal Power)	η [%]	≥ 15.3	≥ 15.6	≥ 15.9

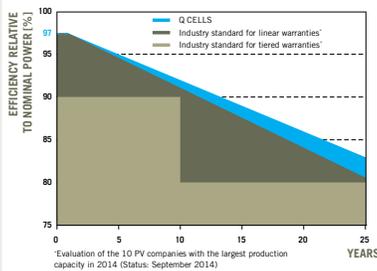
PERFORMANCE AT NORMAL OPERATING CELL TEMPERATURE (NOCT: 800 W/m², 45 ± 3°C, AM 1.5G SPECTRUM)²

POWER CLASS (+5W/-0W)	[W]	255	260	265
Nominal Power	P_{MPP} [W]	188.3	192.0	195.7
Short Circuit Current	I_{SC} [A]	7.31	7.38	7.44
Open Circuit Voltage	V_{OC} [V]	34.95	35.16	35.38
Current at P_{MPP}	I_{MPP} [A]	6.61	6.68	6.75
Voltage at P_{MPP}	V_{MPP} [V]	28.48	28.75	29.01

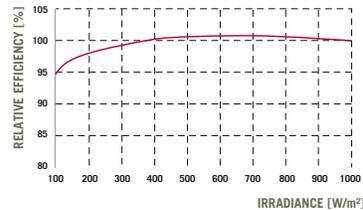
¹ Measurement tolerances STC: ± 3% (P_{MPP}); ± 10% (I_{SC} , V_{OC} , I_{MPP} , V_{MPP})

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

Q CELLS PERFORMANCE WARRANTY



PERFORMANCE AT LOW IRRADIANCE



TEMPERATURE COEFFICIENTS (AT 1000 W/M², 25°C, AM 1.5G SPECTRUM)

Temperature Coefficient of I_{SC}	α [%/K]	+0.04	Temperature Coefficient of V_{OC}	β [%/K]	-0.30
Temperature Coefficient of P_{MPP}	γ [%/K]	-0.41	NOCT	[°F]	113 ± 5.4 (45 ± 3°C)

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage V_{SYS}	[V]	1000 (IEC) / 1000 (UL)	Safety Class	II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating	C / TYPE 1
Max Load (UL)²	[lbs/ft ²]	50 (2400 Pa)	Permitted module temperature on continuous duty	-40°F up to +185°F (-40°C up to +85°C)
Load Rating (UL)²	[lbs/ft ²]	50 (2400 Pa)	² see installation manual	

QUALIFICATIONS AND CERTIFICATES

UL 1703; VDE Quality Tested; CE-compliant;
IEC 61215 (Ed.2); IEC 61730 (Ed.1) application class A



PACKAGING INFORMATION

Number of Modules per Pallet	26
Number of Pallets per 53' Container	32
Number of Pallets per 40' Container	26
Pallet Dimensions (L × W × H)	68.7 in × 45.0 in × 46.0 in (1745 × 1145 × 1170 mm)
Pallet Weight	1254 lb (569 kg)

NOTE: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product. Warranty void if non-ZEP-certified hardware is attached to groove in module frame.

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Engineered in Germany

