

Q.PEAK L-G5.1 355-370

Q.ANTUM SOLAR MODULE

The new solar module **Q.PEAK L-G5.1** with power classes up to 370 Wp is the strongest module of its type on the market globally. Powered by 72 **Q.ANTUM** solar cells **Q.PEAK L-G5.1** was specially designed for large solar power plants to reduce BOS costs. Only **Q CELLS** offers German engineering quality with our unique **Q CELLS Yield Security**.



LOW ELECTRICITY GENERATION COSTS

Higher yield per surface area and lower BOS costs thanks to higher power classes and an efficiency rate of up to 18.8%.



INNOVATIVE ALL-WEATHER TECHNOLOGY

Optimal yields, whatever the weather with excellent low-light and temperature behavior.



ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID Technology, Anti PID Technology¹, Hot-Spot Protect and Traceable Quality Tra.Q™.



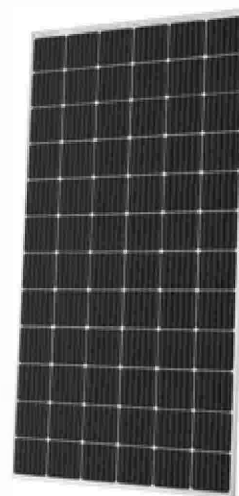
EXTREME WEATHER RATING

High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (2400 Pa).



A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 25-year linear performance warranty².



THE IDEAL SOLUTION FOR:

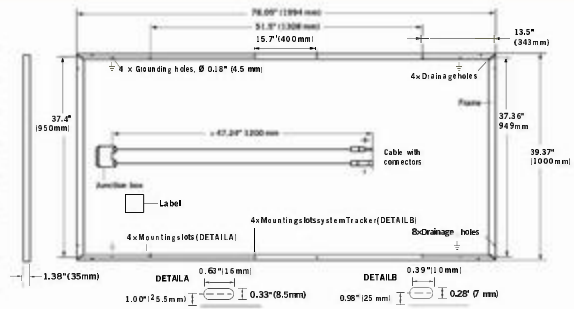


Engineered in **Germany**

¹ APT test conditions according to IEC/TS 62804-1:2015, method B (-1500V, 168h)
² See data sheet on rear for further information.

MECHANICAL SPECIFICATION

Format	78.5 in × 39.4 in × 1.38 in (including frame) (1994mm × 1000mm × 35mm)
Weight	50.7lbs (23kg) ±5%
Front Cover	0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Anodized aluminum
Cell	6 × 12 monocrystalline Q.ANTUM solar cells
Junction box	2.60-3.03 in × 3.54-4.53 in × 0.59-0.79 in (66-77 × 90-115 × 15-20mm), Protection class ≥ IP67, with bypass diodes
Cable	4mm ² Solar cable; (+) ≥ 47.24 in (1200mm), (-) ≥ 47.24 in (1200mm)
Connector	Intermateable connector with H4, MC4, IP67 or IP68



ELECTRICAL CHARACTERISTICS

POWER CLASS			355	360	365	370
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5W / -0W)						
Minimum	Power at MPP ²	P _{MPP} [W]	355	360	365	370
	Short Circuit Current*	I _{SC} [A]	9.69	9.75	9.80	9.86
	Open Circuit Voltage*	V _{OC} [V]	47.45	47.73	48.02	48.30
	Current at MPP*	I _{MPP} [A]	9.16	9.24	9.31	9.39
	Voltage at MPP*	V _{MPP} [V]	38.76	38.98	39.20	39.41
	Efficiency ²	η [%]	≥ 17.8	≥ 18.1	≥ 18.3	≥ 18.6
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOC ³						
Minimum	Power at MPP ²	P _{MPP} [W]	262.7	266.4	270.1	273.8
	Short Circuit Current*	I _{SC} [A]	7.81	7.86	7.91	7.95
	Open Circuit Voltage*	V _{OC} [V]	44.38	44.65	44.92	45.19
	Current at MPP*	I _{MPP} [A]	7.19	7.26	7.32	7.39
	Voltage at MPP*	V _{MPP} [V]	36.52	36.71	36.89	37.06

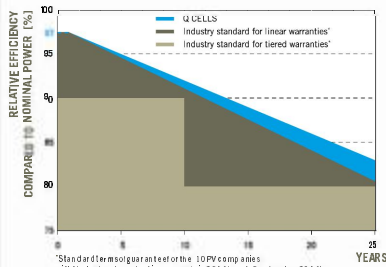
¹1000W/m², 25°C, spectrum AM 1.5G

²Measurement tolerances STC ±3%; NOC ±5%

³800W/m², NOCT, spectrum AM 1.5G

* typical values, actual values may differ

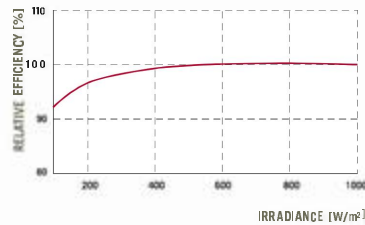
Q CELLS PERFORMANCE WARRANTY



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



Typical module performance under low irradiance conditions in comparison to STC conditions (25°C, 1000W/m²).

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I_{SC}	α	[%/K]	+0.04	Temperature Coefficient of V_{OC}	β	[%/K]	-0.28
Temperature Coefficient of P_{MPP}	γ	[%/K]	-0.39	Normal Operating Cell Temperature	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	[ADC]	20	Fire Rating	C (IEC) / TYPE 1 (UL)
Design load, push (UL)²	[lbs/ft²]	75 (3600Pa)	Permitted module temperature on continuous duty	-40°F up to +185°F (-40°C up to +85°C)
Design load, pull (UL)²	[lbs/ft²]	33 (1600Pa)	² see installation manual	

QUALIFICATIONS AND CERTIFICATES

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 our technical service department for further information on approved installation and use of this product.

Hanwha Q CELLS America Inc.
300 Spectrum Center Drive, Suite 1250, Irvine, CA 92618, USA | TEL +1 949 748 59 961 | EMAIL inquiry@us.q-cells.com | WEB www.q-cells.us

Engineered in Germany

