powered by Q.ANTUM

Q.PLUS L-G4.2 340-350

Q.ANTUM SOLAR MODULE

The Q.ANTUM solar module Q.PLUS L-G4.2 with power classes up to 350 Wp is the strongest module of its type on the market globally. Powered by 72 Q CELLS solar cells Q.PLUS L-G4.2 was specially designed for large solar power plants to reduce BOS costs. Only Q CELLS offers German engineering quality with our unique triple 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 17.8 %.

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-PID Technology[1], 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 guarantee[2].

[1] APT test conditions according to IEC/TS 62804-1:2015, method B (–1500 V, 168 h)

[2] See data sheet on rear for further information.

THE IDEAL SOLUTION FOR:

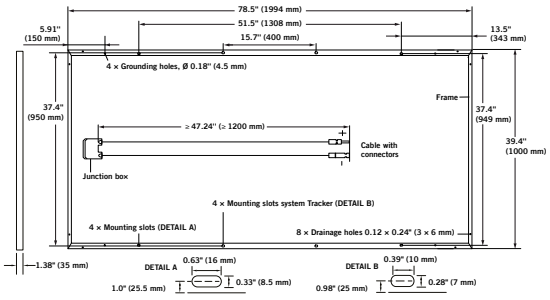
Ground-mounted solar power plants

Engineered in **Germany**

Q CELLS

MECHANICAL SPECIFICATION

Format	78.5 in × 39.4 in × 1.38 in (including frame) (1994 mm × 1000 mm × 35 mm)
Weight	50.7 lbs (23 kg)
Front Cover	0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Anodised aluminum
Cell	6 × 12 Q.ANTUM solar cells
Junction box	3.35-4.53 in × 2.36-3.15 in × 0.59-0.75 in (85-115 × 60-80 × 15-19 mm), Protection class ≥ IP67, with bypass diodes
Cable	4 mm² Solar cable; (+) ≥ 47.24 in (1200 mm), (–) ≥ 47.24 in (1200 mm)
Connector	Multi-Contact MC4-EVO2, JMTHY PV-JM601A or Amphenol UTX; IP68

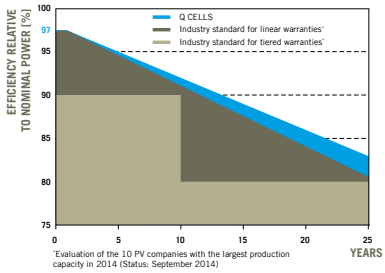


ELECTRICAL CHARACTERISTICS

POWER CLASS				340	345	350
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC[1] (POWER TOLERANCE +5 W / –0 W)						
Minimum	Power at MPP[1]	P_{MPP}	[W]	340	345	350
	Short Circuit Current[1]	I_{SC}	[A]	9.54	9.59	9.64
	Open Circuit Voltage[1]	V_{OC}	[V]	46.34	46.58	46.82
	Current at MPP	I_{MPP}	[A]	9.03	9.10	9.16
	Voltage at MPP	V_{MPP}	[V]	37.65	37.93	38.20
	Efficiency[1]	η	[%]	≥17.1	≥17.3	≥17.6
MINIMUM PERFORMANCE AT NORMAL MODULE OPERATING TEMPERATURE, NMOT[2]						
Minimum	Power at MPP	P_{MPP}	[W]	253.4	257.1	260.9
	Short Circuit Current	I_{SC}	[A]	7.69	7.73	7.77
	Open Circuit Voltage	V_{OC}	[V]	43.51	43.74	43.97
	Current at MPP	I_{MPP}	[A]	7.10	7.15	7.21
	Voltage at MPP	V_{MPP}	[V]	35.71	35.95	36.19

[1]Measurement tolerances P_{MPP} ±3%; I_{SC}, V_{OC} ±5% at STC: 1000 W/m², 25±2°C, AM 1.5G according to IEC 60904-3 · [2]800 W/m², NMOT, spectrum AM 1.5G

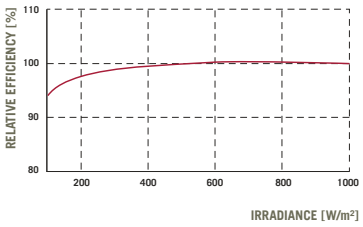
Q CELLS PERFORMANCE WARRANTY



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, 1000 W/m²).

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I_{SC}	α	[%/K]	+0.04	**Temperature Coefficient of V_{OC}**	β	[%/K]	–0.29
Temperature Coefficient of P_{MPP}	γ	[%/K]	–0.40	**Normal Module Operating Temperature**	NMOT	[°F]	109 ± 5.4 (43±3 °C)

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage V_{SYS}	[V]	1500	**Safety Class**		II
Maximum Series Fuse Rating	[A DC]	20	**Fire Rating**		C (IEC) / TYPE 1 (UL)
Max. Design Load, Push / Pull	[lbs/ft²]	75 (3600 Pa) / 33 (1600 Pa)	**Permitted module temperature on continuous duty**		–40 °F up to +185 °F (–40 °C up to +85 °C)
Max. Test Load, Push / Pull	[lbs/ft²]	113 (5400 Pa) / 50 (2400 Pa)			

QUALIFICATIONS AND CERTIFICATES

IEC 61215:2016; IEC 61730:2016, Application class A
This data sheet complies with DIN EN 50380.

PACKAGING INFORMATION

Number of Modules per Pallet	29
Number of Pallets per 53' Container	26
Number of Pallets per 40' Container	22
Pallet Dimensions (L × W × H)	81.3 × 45.3 × 46.9 in (2065 × 1150 × 1190 mm)
Pallet Weight	1579 lbs (716 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.

Hanwha Q CELLS America Inc.
300 Spectrum Center Drive, Suite 1250, Irvine, CA 92618, USA I **TEL** +1 949 748 59 96 I **EMAIL** inquiry@us.q-cells.com I **WEB** www.q-cells.us

Engineered in **Germany**