

The Q.ANTUM solar module Q.PLUS L-G4.2 with power classes up to 345 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. But there is even more to our polycrystalline modules. 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 17.6 %.



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 Technology¹, Hot-Spot-Protect and Traceable Quality Tra.Q™.



LIGHT-WEIGHT QUALITY FRAME

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 guarantee².









against grounded, with conductive metal foil covered module surface, 25°C,

² See data sheet on rear for further information.

¹ APT test conditions: Cells at -1000 V







 6×12 Q.ANTUM solar cells

52.9 lb (24 kg) Weight 0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology **Front Cover**

Back Cover Composite film

Cell

Cable

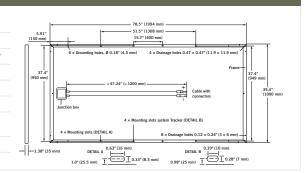
Frame Anodised aluminum

Junction box $3.35\text{-}4.13\,\text{in} \times 2.36\text{-}3.15\,\text{in} \times 0.59\text{-}0.67\,\text{in}$ (85-105 mm \times 60-80 mm \times

15-17 mm), Protection class \ge IP67, with bypass diodes

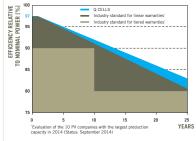
4 mm² Solar cable; (+) \geq 47.24 in (1200 mm), (-) \geq 47.24 in (1200 mm)

Amphenol H4, IP68 Connector



EL	ECTRICAL CHARACTERIS	TICS							
POWER CLASS				320	325	330	335	340	345
MI	NIMUM PERFORMANCE AT STANI	DARD TEST CONDITIONS, STC1 (POWER TOLE	RANCE +5 W / -0 \	W)				
Minimum	Power at MPP ²	P_{MPP}	[W]	320	325	330	335	340	345
	Short Circuit Current*	I_{sc}	[A]	9.39	9.44	9.49	9.54	9.59	9.64
	Open Circuit Voltage*	V _{oc}	[V]	46.17	46.43	46.68	46.94	47.20	47.46
	Current at MPP*	I _{MPP}	[A]	8.79	8.85	8.91	8.97	9.03	9.09
	Voltage at MPP*	V_{MPP}	[V]	36.39	36.70	37.02	37.33	37.63	37.93
	Efficiency ²	η	[%]	≥16.0	≥16.3	≥16.5	≥16.8	≥ 17.1	≥17.3
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOC3									
Minimum	Power at MPP ²	P _{MPP}	[W]	237.2	241.0	244.7	248.4	252.1	255.8
	Short Circuit Current*	I _{sc}	[A]	7.57	7.61	7.65	7.69	7.73	7.77
	Open Circuit Voltage*	V _{oc}	[V]	43.08	43.32	43.56	43.81	44.05	44.29
	Current at MPP*	I _{MPP}	[A]	6.89	6.94	6.99	7.04	7.09	7.14
	Voltage at MPP*	\mathbf{V}_{MPP}	[V]	34.44	34.72	35.01	35.29	35.56	35.83
1100	00 W/m² 25°C spectrum AM 1.5G	² Measurement tolerances STC +	3% NOC +5%	3 800 W/m² NC	OCT spectrum AM 1	5G * typical va	alues actual values	may differ	

Q CELLS PERFORMANCE WARRANTY



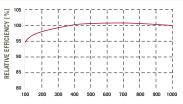
At least 97% of nominal power during first year. Thereafter max. 0.6% degradation per year.
At least 92% of nominal power after

At least 83% of nominal power after

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

organisation of your respective country

PERFORMANCE AT LOW IRRADIANCE



IRRADIANCE [W/m²]

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 1.5G spectrum) is -1.5% (relative).

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 Operating Cell Temperature	NOCT	[°F]	113 ± 5.4 (45 ± 3°C)

PROPERTIES FOR SYSTEM DESIGN						
Maximum System Voltage V _{SYS}	[V]	1500 (IEC) / 1500 (UL)	Safety Class	II		
Maximum Series Fuse Rating	[A DC]	15	Fire Rating	C / Type 1		
Max Load (UL) ²	[lbs/ft²]	75 (3600 Pa)	Permitted module temperature on continuous duty	-40°F up to +185°F (-40°C up to +85°C)		
Load Rating (UL) ²	[lbs/ft²]	33 (1600 Pa)	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.







PACKAGING INFORMATION

Number of Modules per Pallet	29
Number of Pallets per 40' Container	22
Pallet Dimensions (L × W × H)	81.3 x 45.3 x 46.9 in (2065 x 1150 x 1190 mm)

Pallet Weight

1671 lbs (758 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.

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