

The polycrystalline solar module Q.PRO L-G2 with power classes up to 315 W is the strongest module of its type on the market globally. Powered by 72 Q CELLS solar cells and with a size of 1.9 m² Q.PRO L-G2 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.

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

- Reduced BOS costs: Optimised design to reduce costs per Wp.
- Improved energy yield: The actual output of all Q CELLS solar modules is up to
 Wp higher than the nominal power thanks to positive sorting.
- Guaranteed performance: investment security due to 12-year product warranty and 25-year linear performance warranty².









THE IDEAL SOLUTION FOR:



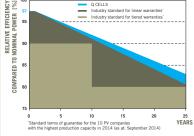
- APT test conditions: Cells at -1000V against grounded, with conductive metal foil covered module surface, 25°C, 168 h
- ² See data sheet on rear for further information.



MECHANIC	MECHANICAL SPECIFICATION					
Format	76.69 in \times 38.7 in \times 1.57 in (including frame) (1948 mm \times 982 mm \times 40 mm)					
Weight	48.72 lbs (22.1 kg)					
Front Cover	0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology					
Back Cover	Composite film					
Frame	Anodised aluminium					
Cell	6×12 polycrystalline solar cells					
Junction box	4.33 in \times 4.53 in \times 0.91 in (110 mm \times 115 mm \times 23 mm) Protection class IP67, with bypass diodes					
Cable	4 mm² Solar cable; (+) \geq 47.2 in (1200 mm), (-) \geq 47.2 in (1200 mm)					
Connector	Tyco, Solarlok PV4, IP68					

EL	ECTRICAL CHARACTERIS	STICS				
P0	WER CLASS			305	310	315
MI	NIMUM PERFORMANCE AT STAN	DARD TEST CONDITIONS, STC1 (POWER TOLEI	RANCE +5 W / -0 W)		
	Power at MPP ²	P _{MPP}	[W]	305	310	315
_	Short Circuit Current*	I _{sc}	[A]	8.99	9.06	9.12
Minimum	Open Circuit Voltage*	V_{oc}	[V]	45.14	45.37	45.61
Mini	Current at MPP*	I _{MPP}	[A]	8.38	8.45	8.52
_	Voltage at MPP*	V_{MPP}	[V]	36.39	36.68	36.97
	Efficiency ²	η	[%]	≥15.9	≥16.2	≥16.5
MI	NIMUM PERFORMANCE AT NORM	MAL OPERATING CONDITIONS, NO	IC3			
	Power at MPP ²	P _{MPP}	[W]	225.3	228.9	232.6
E	Short Circuit Current*	I _{sc}	[A]	7.25	7.30	7.36
Minimum	Open Circuit Voltage*	V _{oc}	[V]	42.02	42.24	42.46
Ξ	Current at MPP*	I _{MPP}	[A]	6.56	6.61	6.67
	Voltage at MPP*	V_{MPP}	[V]	34.35	34.62	34.88
1100	00 W/m ² , 25°C, spectrum AM 1.5G	² Measurement tolerances STC ±3	3%; NOC ±5%	³ 800 W/m ² , NOCT, spectrum AM 1.5 G	* typical values, actual values may differ	

Q CELLS PERFORMANCE WARRANTY



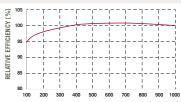
At least 97 % of nominal power during first year. Thereafter max. 0.6 % degradation per year.

At least 92% of nominal power 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 organisation 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 $^{\circ}\text{C}$ and AM 1.5 G spectrum) is -2 % (relative).

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I _{sc}	α	[%/K]	+0.04	Temperature Coefficient of \mathbf{V}_{oc}	β	[%/K]	-0.30
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.41	Normal Operating Cell Temperature	NOCT	[°F]	113 ± 5.4 (45 ± 3°C)

PROPERTIES FOR SYSTEM D	ESIGN			
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/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]	55.6 (2666 Pa)	2 see installation manual	

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QUALIFICATIONS AND CERTIFICATES			PACKAGING INFORMATION	
III 1703, IEC 61215 (Ed 2), IE	C 61730 (Ed. 1) Application cla	acc A		





PAGRAGING INFORMATION	
Number of Modules per Pallet	24
Number of Pallets per 53' Container	30
Number of Pallets per 40' Container	22
Pallet Dimensions ($L \times W \times H$)	$79.1 \text{in} \times 43.3 \text{in} \times 46.1 \text{in}$ (2010 × 1100 × 1170 mm)
Pallet Weight	1301 lbs (590 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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