

Q.PEAK L-G4.5

355-375

ENDURING HIGH
PERFORMANCE



PERC TECHNOLOGY: LOW LEVELISED COST OF ELECTRICITY

Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 19.1%.



INNOVATIVE ALL-WEATHER TECHNOLOGY

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



ENDURING HIGH PERFORMANCE

Long-term yield security thanks to regular PID and Hot-Spot tests according to IEC requirements.



EXTREME WEATHER RATING

High-tech aluminium 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 warranty¹.

¹ See data sheet on rear for further information.

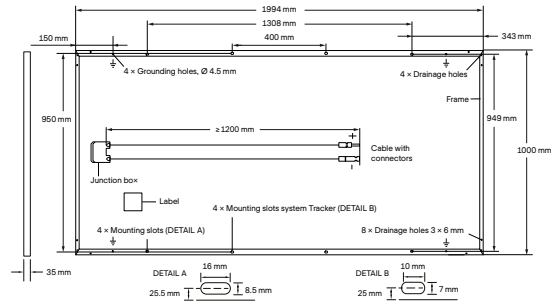
THE IDEAL SOLUTION FOR:



Ground-mounted
solar power plants

MECHANICAL SPECIFICATION

Format	1994 mm × 1000 mm × 35 mm (including frame)
Weight	23 kg
Front Cover	3.2 mm thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Anodised aluminium
Cell	6 × 12 monocrystalline PERC solar cells
Junction box	85-115 mm × 60-80 mm × 15-20 mm Protection class ≥ IP67, with bypass diodes
Cable	4 mm ² Solar cable; (+) ≥ 1200 mm, (-) ≥ 1200 mm
Connector	Stäubli MC4-Evo2; IP68

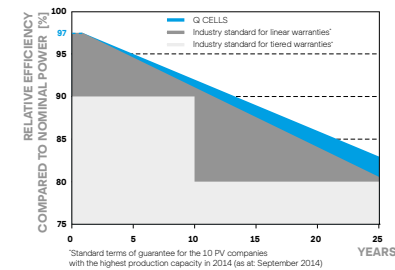


ELECTRICAL CHARACTERISTICS

POWER CLASS			355	360	365	370	375
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5 W / -0 W)							
Minimum	Power at MPP ¹	P_{MPP} [W]	355	360	365	370	375
	Short Circuit Current ¹	I_{SC} [A]	9.77	9.83	9.89	9.94	10.00
	Open Circuit Voltage ¹	V_{OC} [V]	47.30	47.59	47.87	48.15	48.44
	Current at MPP	I_{MPP} [A]	9.20	9.28	9.36	9.43	9.51
	Voltage at MPP	V_{MPP} [V]	38.57	38.79	39.01	39.22	39.43
	Efficiency ¹	η [%]	≥17.8	≥18.1	≥18.3	≥18.6	≥18.8
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT ²							
Minimum	Power at MPP	P_{MPP} [W]	264.9	268.6	272.4	276.1	279.8
	Short Circuit Current	I_{SC} [A]	7.87	7.92	7.96	8.01	8.06
	Open Circuit Voltage	V_{OC} [V]	44.57	44.84	45.11	45.38	45.65
	Current at MPP	I_{MPP} [A]	7.22	7.29	7.35	7.42	7.48
	Voltage at MPP	V_{MPP} [V]	36.67	36.86	37.04	37.22	37.39

¹Measurement tolerances $P_{MPP} \pm 3\%$; I_{SC} ; $V_{OC} \pm 5\%$ at STC: 1000 W/m², 25 ± 2°C, AM 1.5G according to IEC 60904-3 • ²800 W/m², NMOT, spectrum AM 1.5G

Q CELLS PERFORMANCE WARRANTY

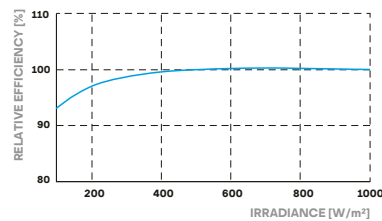


Standard terms of guarantee for the 10 PV companies with the highest production capacity in 2014 (as of September 2014)

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 organisation 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]	-0.28
Temperature Coefficient of P_{MPP}	γ [%/K]	-0.39	Normal Module Operating Temperature	NMOT [°C]	43 ± 3

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage	V_{SYS} [V]	1500	Safety Class	II
Maximum Reverse Current	I_R [A]	20	Fire Rating	C / TYPE 1
Max. Design Load, Push/Pull	[Pa]	3600/1600	Permitted Module Temperature on Continuous Duty	-40°C - +85°C
Max. Test Load, Push/Pull	[Pa]	5400/2400		

QUALIFICATIONS AND CERTIFICATES

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



PACKAGING INFORMATION

Number of Modules per Pallet	29
Number of Pallets per Trailer (24t)	26
Number of Pallets per 40' HC-Container (26t)	22
Pallet Dimensions (L × W × H)	2065 × 1150 × 1190 mm
Pallet Weight	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.

Hanwha Q CELLS GmbH

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