

Q.PEAK DUO-G10.4

360-380

OUTSTANDING RELIABILITY
AND EXCEPTIONAL YIELDS



Quality
Controlled PV

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ID 1111232615



BREAKING THE 21% EFFICIENCY BARRIER

PERC Technology with zero gap cell layout
boosts module efficiency up to 21.5%.



THE MOST THOROUGH TESTING PROGRAMME IN THE INDUSTRY

Q CELLS is the first solar module manufacturer to pass the most comprehensive quality programme in the industry: The new "Quality Controlled PV" of the independent certification institute TÜV Rheinland.



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 (5400Pa) and wind loads (4000Pa).



A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 25-year
linear performance warranty¹.

¹ See data sheet on rear for further information.

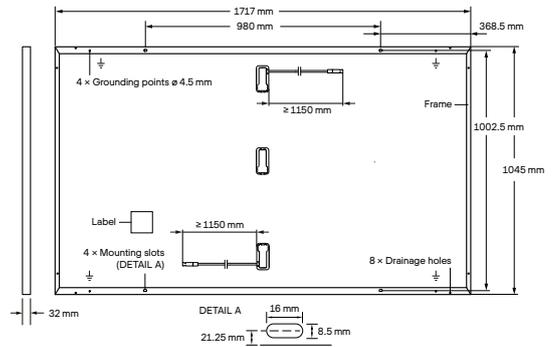
THE IDEAL SOLUTION FOR:



Rooftop arrays on
residential buildings

MECHANICAL SPECIFICATION

Format	1717 mm × 1045 mm × 32 mm (including frame)
Weight	19.9 kg
Front Cover	3.2 mm thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodised aluminium
Cell	6 × 20 monocrystalline PERC solar half cells
Junction box	53-101 mm × 32-60 mm × 15-18 mm Protection class IP67, with bypass diodes
Cable	4 mm ² Solar cable; (+) ≥ 1150 mm, (-) ≥ 1150 mm
Connector	Stäubli MC4, Hanwha Q CELLS HQC4; IP68

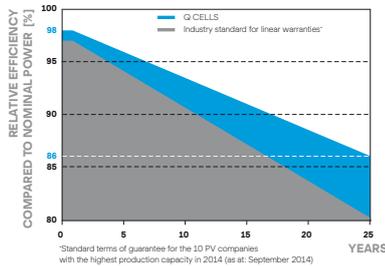


ELECTRICAL CHARACTERISTICS

POWER CLASS			360	365	370	375	380
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5 W / -0 W)							
Minimum	Power at MPP ¹	P_{MPP} [W]	360	365	370	375	380
	Short Circuit Current ¹	I_{SC} [A]	11.24	11.27	11.31	11.34	11.37
	Open Circuit Voltage ¹	V_{OC} [V]	41.20	41.23	41.26	41.30	41.33
	Current at MPP	I_{MPP} [A]	10.62	10.68	10.75	10.81	10.87
	Voltage at MPP	V_{MPP} [V]	33.89	34.16	34.43	34.69	34.95
	Efficiency ¹	η [%]	≥ 20.1	≥ 20.3	≥ 20.6	≥ 20.9	≥ 21.2
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT ²							
Minimum	Power at MPP	P_{MPP} [W]	270.1	273.8	277.6	281.3	285.1
	Short Circuit Current	I_{SC} [A]	9.06	9.08	9.11	9.14	9.16
	Open Circuit Voltage	V_{OC} [V]	38.85	38.88	38.91	38.95	38.98
	Current at MPP	I_{MPP} [A]	8.34	8.40	8.46	8.51	8.57
	Voltage at MPP	V_{MPP} [V]	32.37	32.60	32.83	33.05	33.28

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

Q CELLS PERFORMANCE WARRANTY

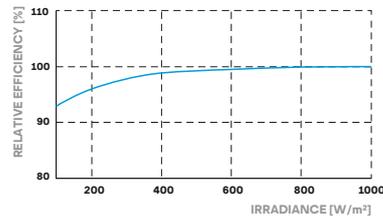


¹Standard terms of guarantee for the 10 PV companies with the highest production capacity in 2014 (as at September 2014)

At least 98% of nominal power during first year. Thereafter max. 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At least 86% 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]	-0.27
Temperature Coefficient of P_{MPP}	γ [%/K]	-0.34	Nominal Module Operating Temperature	NMOT [°C]	43 ± 3

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage	V_{SYS} [V]	1000	PV module classification	Class II
Maximum Reverse Current	I_R [A]	20	Fire Rating based on ANSI / UL 61730	C / TYPE 2
Max. Design Load, Push / Pull	[Pa]	3600 / 2660	Permitted Module Temperature on Continuous Duty	-40°C - +85°C
Max. Test Load, Push / Pull	[Pa]	5400 / 4000		

QUALIFICATIONS AND CERTIFICATES

Quality Controlled PV - TÜV Rheinland;
IEC 61215:2016; IEC 61730:2016.
This data sheet complies
with DIN EN 50380.
QCPV Certification ongoing.



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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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