











BREAKING THE 20% EFFICIENCY BARRIER

Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 20.9 $\!\%.$



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



EXTREME WEATHER RATING

High-tech aluminium alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).



A RELIABLE INVESTMENT

Inclusive 25-year product warranty and 25-year linear performance warranty².

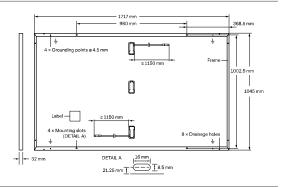
 $^{\rm 1}$ APT test conditions according to IEC/TS 62804-1:2015, method A (–1500 V, 96h)

THE IDEAL SOLUTION FOR:





² See data sheet on rear for further information.

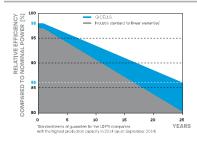


ELECTRICAL CHARACTERISTICS

POV	VER CLASS			350	355	360	365	370
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC1 (POWER TOLERANCE +5 W / -0 W)								
	Power at MPP¹	P _{MPP}	[W]	350	355	360	365	370
	Short Circuit Current ¹	I _{sc}	[A]	10.97	11.00	11.04	11.07	11.10
nnu	Open Circuit Voltage ¹	V _{oc}	[V]	41.11	41.14	41.18	41.21	41.24
Mini.	Current at MPP	MPP	[A]	10.37	10.43	10.49	10.56	10.62
2 .	Voltage at MPP	V_{MPP}	[V]	33.76	34.03	34.31	34.58	34.84
	Efficiency ¹	η	[%]	≥19.5	≥19.8	≥20.1	≥20.3	≥20.6
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT ²								
	Power at MPP	P _{MPP}	[W]	262.6	266.3	270.1	273.8	277.6
E .	Short Circuit Current	I _{sc}	[A]	8.84	8.87	8.89	8.92	8.95
ië.	Open Circuit Voltage	V _{oc}	[V]	38.77	38.80	38.83	38.86	38.90
Ē	Current at MPP	I _{MPP}	[A]	8.14	8.20	8.26	8.31	8.37
	Voltage at MPP	V _{MPP}	[V]	32.24	32.48	32.71	32.94	33.17

 $^{^{\}text{L}}\text{Measurement tolerances P}_{\text{MPP}} \pm 3\%; I_{\text{SC}}, V_{\text{CO}} \pm 5\% \text{ at STC}: 1000 \text{W/m}^2, 25 \pm 2^{\circ}\text{C}, \text{AM 1.5 according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^2, \text{NMOT, spectrum AM 1.5} \text{ according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^2, \text{NMOT, spectrum AM 1.5} \text{ according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^2, \text{NMOT, spectrum AM 1.5} \text{ according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^2, \text{NMOT, spectrum AM 1.5} \text{ according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^2, \text{NMOT, spectrum AM 1.5} \text{ according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^2, \text{NMOT, spectrum AM 1.5} \text{ according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^2, \text{NMOT, spectrum AM 1.5} \text{ according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^2, \text{NMOT, spectrum AM 1.5} \text{ according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^2, \text{NMOT, spectrum AM 1.5} \text{ according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^2, \text{NMOT, spectrum AM 1.5} \text{ according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^2, \text{NMOT, spectrum AM 1.5} \text{ according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^2, \text{NMOT, spectrum AM 1.5} \text{ according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^2, \text{NMOT, spectrum AM 1.5} \text{ according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^2, \text{NMOT, spectrum AM 1.5} \text{ according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^2, \text{NMOT, spectrum AM 1.5} \text{ according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^2, \text{NMOT, spectrum AM 1.5} \text{ according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^2, \text{NMOT, spectrum AM 1.5} \text{ according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^2, \text{NMOT, spectrum AM 1.5} \text{ according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^2, \text{NMOT, spectrum AM 1.5} \text{ according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^2, \text{NMOT, spectrum AM 1.5} \text{ according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^2, \text{NMOT, spectrum AM 1.5} \text{ according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^2, \text{NMOT, spectrum AM 1.5} \text{ according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^2, \text{NMOT, spectrum AM 1.5} \text{ according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^2, \text{NMOT, spectrum AM 1.5} \text{ according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^2, \text{NMOT, spectrum AM 1.5} \text{ according to IEC 60904-3} \cdot ^{2}800 \text{W/m}^2, \text{NMOT, spectrum AM$

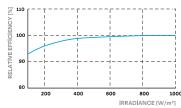
Q CELLS PERFORMANCE WARRANTY



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 Voc	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	-40°C - +85°C
Max. Test Load, Push / Pull		[Pa]	5400/4000	on Continuous Duty	

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.





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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