











BREAKING THE 20% EFFICIENCY BARRIER

Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 21.1%.



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 with Anti LID Technology, Anti PID Technology¹, Hot-Spot Protect and Traceable Quality Tra.Q™.



EXTREME WEATHER RATING

High-tech aluminium alloy frame, certified for high snow (6000Pa) and wind loads (4000Pa).



A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 25-year linear performance warranty².

THE IDEAL SOLUTION FOR:



Rooftop arrays on residential buildings

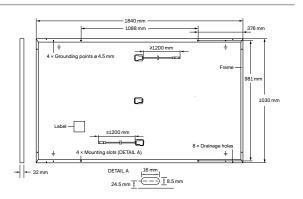


Rooftop arrays on commercial/industrial buildings



¹ APT test conditions according to IEC/TS 62804-1:2015, method A (-1500 V, 96h)

 $^{^{\}rm 2}$ See data sheet on rear for further information.

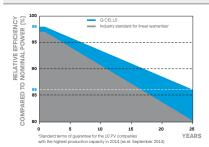


ELECTRICAL CHARACTERISTICS

PO	VER CLASS			375	380	385	390	395
MIN	IIMUM PERFORMANCE AT STANDARD	TEST CONDITIO	NS, STC1 (PC	WER TOLERANCE	+5W/-0W)			
Minimum	Power at MPP¹	P _{MPP}	[W]	375	380	385	390	395
	Short Circuit Current ¹	I _{sc}	[A]	10.62	10.65	10.68	10.71	10.74
	Open Circuit Voltage ¹	V _{oc}	[V]	44.96	44.99	45.03	45.06	45.10
	Current at MPP	I _{MPP}	[A]	10.09	10.14	10.20	10.26	10.32
	Voltage at MPP	V _{MPP}	[V]	37.18	37.46	37.74	38.01	38.29
	Efficiency ¹	η	[%]	≥19.8	≥20.1	≥20.3	≥20.6	≥20.8
MIN	IIMUM PERFORMANCE AT NORMAL O	PERATING CONE	DITIONS, NM	OT ²				
Minimum	Power at MPP	P _{MPP}	[W]	280.8	284.6	288.3	292.0	295.8
	Short Circuit Current	I _{sc}	[A]	8.55	8.58	8.60	8.63	8.65
	Open Circuit Voltage	Voc	[V]	42.39	42.43	42.46	42.50	42.53
	Current at MPP	I _{MPP}	[A]	7.93	7.99	8.04	8.09	8.14
	Voltage at MPP	V _{MPP}	[V]	35.39	35.64	35.87	36.11	36.34

 $^{1}\text{Measurement tolerances P}_{\text{MPP}} \pm 3\%; I_{\text{SC}}; V_{\text{OC}} \pm 5\% \text{ at STC}; 1000 \text{W/m}^{2}, 25 \pm 2\text{°C}, \text{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},$

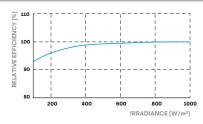
Q CELLS PERFORMANCE WARRANTY



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]	-0.35	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]	4000/2660	Permitted Module Temperature	-40°C - +85°C
Max Test Load Dush / Dull		[Da]	6000 / 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.













PACKAGING INFORMATION



28 pallets





24 pallets 33 modules

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

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Vertical

packaging

