









BREAKING THE 20% EFFICIENCY BARRIER

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



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 (6000 Pa) and wind loads (4000 Pa).



A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 25-year linear performance warranty 2 .



STATE OF THE ART MODULE TECHNOLOGY

Q.ANTUM DUO combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology.

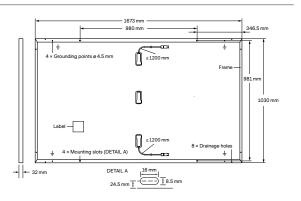
THE IDEAL SOLUTION FOR:





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

² See data sheet on rear for further information.

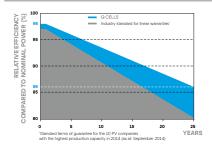


ELECTRICAL CHARACTERISTICS

WER CLASS			335	340	345	350	355
IIMUM PERFORMANCE AT STANDAF	RD TEST CONDITIO	NS, STC1 (PC	OWER TOLERANCE	+5W/-0W)			
Power at MPP¹	P _{MPP}	[W]	335	340	345	350	355
Short Circuit Current ¹	I _{sc}	[A]	10.58	10.61	10.64	10.68	10.71
Open Circuit Voltage ¹	V _{oc}	[V]	40.83	40.86	40.90	40.94	40.97
Current at MPP	I _{MPP}	[A]	10.01	10.07	10.14	10.20	10.26
Voltage at MPP	V_{MPP}	[V]	33.47	33.75	34.03	34.31	34.58
Efficiency ¹	η	[%]	≥19.4	≥19.7	≥20.0	≥20.3	≥20.6
IIMUM PERFORMANCE AT NORMAL	OPERATING CONE	DITIONS, NIV	IOT ²				
Power at MPP	P _{MPP}	[W]	250.9	254.6	258.4	262.1	265.8
Short Circuit Current	I _{sc}	[A]	8.52	8.55	8.58	8.60	8.63
Open Circuit Voltage	V _{oc}	[V]	38.50	38.53	38.57	38.60	38.64
Current at MPP	I _{MPP}	[A]	7.87	7.92	7.98	8.04	8.09
Voltage at MPP	V _{MPP}	[V]	31.89	32.13	32.37	32.61	32.85
	Power at MPP¹ Short Circuit Current¹ Open Circuit Voltage¹ Current at MPP Voltage at MPP Efficiency¹ IIMUM PERFORMANCE AT NORMAL Power at MPP Short Circuit Current Open Circuit Voltage Current at MPP	IMUM PERFORMANCE AT STANDARD TEST CONDITION	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	IIIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC¹ (POWER TOLERANCE Power at MPP¹ P_{MPP} [W] 335 Short Circuit Current¹ P_{MPP} [W] 335 Open Circuit Voltage¹ P_{MPP} [V] 40.83 Current at MPP P_{MPP} [V] 40.83 Current at MPP P_{MPP} [V] 33.47 Efficiency¹ P_{MPP} [V] 33.47 Efficiency¹ P_{MPP} [V] 33.47 IIIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT² Power at MPP P_{MPP} [W] 250.9 Short Circuit Current P_{MPP} [W] 250.9 Short Circuit Voltage P_{MPP} [V] 38.50 Current at MPP P_{MPP} [A] 7.87	IIIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC¹ (POWER TOLERANCE +5W/-0W) Power at MPP¹ P _{MPP} [W] 335 340 Short Circuit Current¹ I _{SC} [A] 10.58 10.61 Open Circuit Voltage¹ V _{OC} [V] 40.83 40.86 Current at MPP I _{MPP} [A] 10.01 10.07 Voltage at MPP V _{MPP} [V] 33.47 33.75 Efficiency¹ η [%] ≥19.4 ≥19.7 IIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT² Power at MPP P _{MPP} [W] 250.9 254.6 Short Circuit Current I _{SC} [A] 8.52 8.55 Open Circuit Voltage V _{OC} [V] 38.50 38.53 Current at MPP I _{MPP} [A] 7.87 7.92	Number Number	IIIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC¹ (POWER TOLERANCE $+5$ W/ -0 W) Power at MPP¹ P _{MPP} [W] 335 340 345 350 Short Circuit Current¹ I _{SC} [A] 10.58 10.61 10.64 10.68 Open Circuit Voltage¹ V _{OC} [V] 40.83 40.86 40.90 40.94 Current at MPP I _{MPP} [A] 10.01 10.07 10.14 10.20 Voltage at MPP V _{MPP} [V] 33.47 33.75 34.03 34.31 Efficiency¹ η [%] ≥ 19.4 ≥ 19.7 ≥ 20.0 ≥ 20.3 IIIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT² Power at MPP P _{MPP} [W] 250.9 254.6 258.4 262.1 Short Circuit Current I _{SC} [A] 8.52 8.55 8.58 8.60 Open Circuit Voltage V _{OC} [V] 38.50 38.53 38.57 38.60 Current at MPP I _{MPP} [A] 7.87 7.92 7.98 8.04

 $^{1}\text{Measurement tolerances P}_{\text{MPP}}\pm3\%; |_{\text{Sc}}; |_{\text{CC}}\pm5\% \text{ at STC}: 1000 \text{ W/m}^{2}, 25\pm2\text{°C}, \text{AM 1.5 according to IEC 60904-3} \bullet ^{2}800 \text{ W/m}^{2}, \text{NMOT, spectrum AM 1.5}$

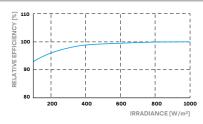
Q CELLS PERFORMANCE WARRANTY



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, Push / Pull		[Pa]	6000/4000	on Continuous Duty	

QUALIFICATIONS AND CERTIFICATES

IEC 61730:2016. This data sheet complies with DIN EN 50380.











PACKAGING INFORMATION







26 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

