





Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 20.8%.



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 warranty².



STATE OF THE ART MODULE TECHNOLOGY

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

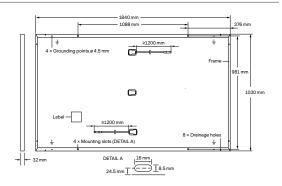
 $^{\rm 1}$ APT test conditions according to IEC/TS 62804-1:2015, method B (–1500 V, 168 h)

THE IDEAL SOLUTION FOR:





² See data sheet on rear for further information.

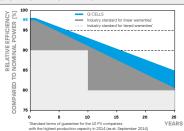


ELECTRICAL CHARACTERISTICS

PO	WER CLASS			370	375	380	385	390	
MIN	IIMUM PERFORMANCE AT STANDAR	+5 W / -0 W)							
Minimum	Power at MPP ¹	P _{MPP}	[W]	370	375	380	385	390	
	Short Circuit Current ¹	I _{sc}	[A]	10.58	10.62	10.65	10.68	10.71	
	Open Circuit Voltage ¹	Voc	[V]	44.92	44.96	44.99	45.03	45.06	
	Current at MPP	I _{MPP}	[A]	10.03	10.09	10.14	10.20	10.26	
	Voltage at MPP	V_{MPP}	[V]	36.90	37.18	37.46	37.74	38.01	
	Efficiency ¹	η	[%]	≥19.5	≥19.8	≥20.1	≥20.3	≥20.6	
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT ²									
Minimum	Power at MPP	P _{MPP}	[W]	277.1	280.8	284.6	288.3	292.0	
	Short Circuit Current	I _{sc}	[A]	8.53	8.55	8.58	8.60	8.63	
	Open Circuit Voltage	V _{oc}	[V]	42.36	42.39	42.43	42.46	42.50	
	Current at MPP	I _{MPP}	[A]	7.88	7.93	7.99	8.04	8.09	
	Voltage at MPP	V _{MPP}	[V]	35.15	35.39	35.64	35.87	36.11	

 $^1\text{Measurement tolerances P}_{MPP}\pm 3\%; \\ |_{SC}; V_{\text{DC}}\pm 5\% \text{ at STC}: 1000 \text{W/m}^2, 25\pm 2\text{°C}, \\ \text{AM 1.5 according to IEC 60904-3} \cdot \\ ^2\text{800 W/m}^2, \\ \text{NMOT}, \\ \text{spectrum AM 1.5} + 2\text{CO}(1000 \text{W/m}^2) + 2$

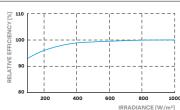
Q CELLS PERFORMANCE WARRANTY



At least 98% of nominal power during first year. Thereafter max. 0.54% degradation per year. At least 93.1% of nominal power up to 10 years. At least 85% 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

PACKAGING INFORMATION

661kg

IEC 61215:2016; IEC 61730:2016. This data sheet complies with DIN EN 50380.







	A 100	4	9	
ntal	1890 mm	1080mm	1208mm	
ging				







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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