

States of the second

Q.MAXX 320-335

ENDURING HIGH PERFORMANCE





Q.ANTUM TECHNOLOGY: LOW LEVELISED COST OF ELECTRICITY

Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 20.2%.



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 (5400 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.

 1 APT test conditions according to IEC/TS 62804-1:2015, method B (–1500V, 168h) 2 See data sheet on rear for further information.

THE IDEAL SOLUTION FOR:





Rooftop arrays on commercial/industrial buildings



EUPD RESEARCH

TOP BRAND PV

19

QCELLS

YIELD SECURITY

ANTI LID TECHNOL

EUPD RE

TOP BRA

D RES

TOP BRA

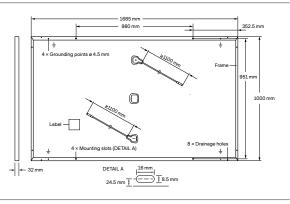
DE

Quality Tested

www.VDEinfo.com ID. 40032587

MECHANICAL SPECIFICATION

18.7kg
3.2 mm thermally pre-stressed glass with anti-reflection technology
Composite film
Black anodised aluminium
6 × 20 monocrystalline Q.ANTUM solar half cells
53-101mm × 32-60 mm × 15-18mm Protection class IP67, with bypass diodes
4 mm² Solar cable; (+) ≥1100 mm, (-) ≥1100 mm
Stäubli MC4; IP68



38.31

32.42

7.61

ELECTRICAL CHARACTERISTICS POWER CLASS 320 325 330 MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC¹ (POWER TOLERANCE +5 W / -0 W) 325 330 Power at MPP¹ [W] 320 $\mathsf{P}_{\mathsf{MPP}}$ 10.10 10.15 [A] 10.04 Short Circuit Current Isc 40.10 40.36 40.62 Voc [V] **Open Circuit Voltage** 9.67 [A] 9.56 9.61 Current at MPP IMPR 33.47 33.81 34.14 Voltage at MPP V_{MF} [V] ≥19.3 ≥19.6 Efficiency¹ η [%] ≥19.0 MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT² P_{MPf} Power at MPP [W] 239.2 242.9 246.6 8.09 8.14 8.18 Short Circuit Current [A] I_{SC}

37.81

7.52

31.79

V_{MPP} [V] Voltage at MPP ¹Measurement tolerances P_{MPP} ±3%; I_{SC}; V_{CC} ±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

[V]

[A]

 V_{oc}

 $\mathsf{I}_{\mathsf{MPP}}$

Q CELLS PERFORMANCE WARRANTY

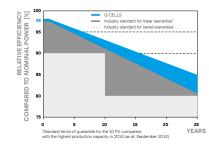
Open Circuit Voltage

Current at MPP

Minimum

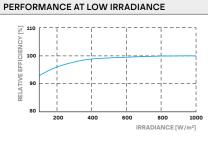
Шn

Minimu



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.



38.06

32.11

7.57

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}	Ŷ	[%/K]	-0.36	Normal Module Operating Temperature	NMOT	[°C]	43±3

PROPERTIES	FOP	SVSTEM	DESIGN
		SISILIN	DESIGN

Maximum System Voltage	V _{SYS}	[V]	1000 (IEC)/1000 (UL)	Safety Class	II
Maximum Reverse Current	I _R	[A]	20	Fire Rating based on ANSI / UL 1703	C/TYPE 2
Max. Design Load, Push / Pull		[Pa]	3600/2667	Permitted Module Temperature	-40°C - +85°C
Max. Test Load, Push/Pull		[Pa]	5400/4000	on Continuous Duty	

QUALIFICATIONS AND CERTIFICATES

PACKAGING INFORMATION

VDE Quality Tested, IEC 61215:2016; IEC 61730:2016, Application Class II,	Number of Modules per Pallet	32
Certification holder: Hanwha Q CELLS GmbH; This data sheet complies with	Number of Pallets per Trailer (24t)	30
DIN EN 50380.	Number of Pallets per 40' HC-Container (26t)	26
	Pallet Dimensions (L × W × H)	1745 × 1130 × 1170 mm
UL1703 (254141)	Pallet Weight	639 kg

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.

Made in China

Hanwha Q CELLS Australia Pty Ltd

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335

335

10.21

40.89

9.72

34.47

≥19.9

250.4

8.22

38.55

32.73

7.65

