

Q.ANTUM SOLAR MODULE

The new Q.PEAK DUO BLK-G5 solar module from Q CELLS impresses with its outstanding visual appearance and particularly high performance on a small surface thanks to the innovative Q.ANTUM DUO Technology. Q.ANTUM's world-record-holding cell concept has now been combined with state-of-the-art circuitry half cells and a six-busbar design, thus achieving outstanding performance under real conditions — both with low-intensity solar radiation as well as on hot, clear summer days.



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 $19.3\,\%$.



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 Technology 1 , Hot-Spot Protect and Traceable Quality Tra.Q TM .



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.

THE IDEAL SOLUTION FOR:









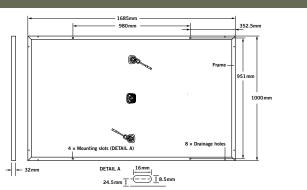




www.VDEinfo.com ID. 40032587

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





EL	ECTRICAL CHARACTERISTICS							
P0\	WER CLASS			305	310	315	320	
MIN	NIMUM PERFORMANCE AT STANDARD TEST COND	ITIONS, ST	C1 (POWER TO	LERANCE +5W/-0W)				
	Power at MPP ²	\mathbf{P}_{MPP}	[W]	305	310	315	320	
_	Short Circuit Current*	I _{sc}	[A]	9.78	9.83	9.89	9.94	
Minimum	Open Circuit Voltage*	\mathbf{V}_{oc}	[V]	39.75	40.02	40.29	40.56	
Ä	Current at MPP*	I _{MPP}	[A]	9.31	9.36	9.41	9.47	
	Voltage at MPP*	\mathbf{V}_{MPP}	[V]	32.78	33.12	33.46	33.80	
	Efficiency ²	η	[%]	≥18.1	≥18.4	≥18.7	≥19.0	
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOC ³								
	Power at MPP ²	\mathbf{P}_{MPP}	[W]	226.0	229.7	233.5	237.2	
트	Short Circuit Current*	I _{sc}	[A]	7.88	7.93	7.97	8.02	
Minimum	Open Circuit Voltage*	\mathbf{V}_{oc}	[V]	37.18	37.43	37.69	37.94	
Ξ	Current at MPP*	I _{MPP}	[A]	7.32	7.36	7.41	7.45	
	Voltage at MPP*	\mathbf{V}_{MPP}	[V]	30.88	31.20	31.52	31.84	

1000 W/m², 25 °C, spectrum AM 1.5G 2 Measurement tolerances STC ±3%; NOC ±5% 3 800 W/m², NOCT, spectrum AM 1.5G *typical values, actual values may differ

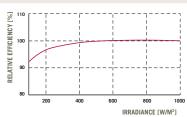
Q CELLS PERFORMANCE WARRANTY

ON THE STANDARD OF STANDARD OF

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 ($25\,^{\circ}$ C, $1000\,\text{W/m}^2$).

TEMPERA	TURE	COEFFI	CIENTS

Temperature Coefficient of I _{sc}	α	[%/K]	+0.04	Temperature Coefficient of V _{oc}	β	[%/K]	-0.28
Temperature Coefficient of P	٧	[%/K]	-0.37	Normal Operating Cell Temperature	NOCT	[°C]	45

PROPERTIES FOR SYSTEM DESIGN							
Maximum System Voltage	\mathbf{V}_{sys}	[V]	1000	Safety Class	II		
Maximum Reverse Current	I _R	[A]	20	Fire Rating	С		
Push/Pull Load (Test-load in accordance with IEC 61215)		[Pa]	5400/4000	Permitted Module Temperature On Continuous Duty	-40°C up to +85°C		

QUALIFICATIONS AND CERTIFICATES

PARTNER

VDE Quality Tested, IEC 61215 (Ed. 2); IEC 61730 (Ed. 1), Application class A This data sheet complies with DIN EN 50380.





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

Sonnenallee 17-21, 06766 Bitterfeld-Wolfen, Germany | TEL +49 (0)3494 66 99-23444 | FAX +49 (0)3494 66 99-23000 | EMAIL sales@q-cells.com | WEB www.q-cells.com

