

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 sixbusbar 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:









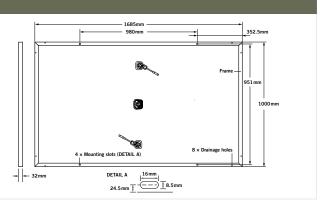




ID. 40032587

- APT test conditions according to IEC/TS 62804-1:2015, method B (-1500V, 168h)
- ² 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, NOC3								
	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	
	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

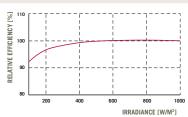
Q CELLS PERFORMANCE WARRANTY

AD AUTHOR TO THE STANDARD OF T

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, $1000\,\text{W/m}^{2}$).

T	EMP	PERAT	URE	COEFFICIENTS	

Temperature Coefficient of I _{sc}	α	[%/K]	+0.04	Temperature Coefficient of \mathbf{V}_{oc}	β	[%/K]	-0.28
Temperature Coefficient of P _{MPP}	γ	[%/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

