

Q.PEAK DUO-G5 315-335

ENDURING HIGH PERFORMANCE





Q.ANTUM TECHNOLOGY: LOW LEVELISED COST OF ELECTRICITY

EUPD RESEARCH TOP BRAND PV

> MODULES EUROPE 2020

QCELLS

YIELD SECURITY ANTI PID TECHNOLOG HOT-SI

TRACEABLE QUALITY (TRA.Q™)

NTI LID TECHNO

VDE

Quality Tested

www.VDEinfo.com ID. 40032587

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2018

WINNER

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 (-1500 V, 168h) ² See data sheet on rear for further information.

THE IDEAL SOLUTION FOR:







Rooftop arrays on commercial/industrial

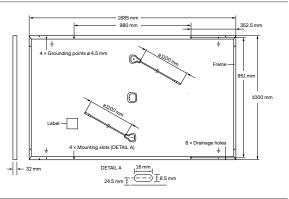


Ground-mounted solar power plants



MECHANICAL SPECIFICATION

Format	1685mm × 1000mm × 32mm (including frame)			
Weight	18.7kg			
Front Cover	3.2mm thermally pre-stressed glass with anti-reflection technology			
Back Cover	Composite film			
Frame	Black anodised aluminium			
Cell	6 × 20 monocrystalline Q.ANTUM solar half cells			
Junction box	53-101 mm × 32-60 mm × 15-18 mm Protection class IP67, with bypass diodes			
Cable	4mm² Solar cable; (+) ≥1100mm, (-) ≥1100mm			
Connector	Stäubli MC4, Hanwha Q CELLS HQC4, Amphenol UTX, Renhe 05-6, Tongling TL-Cable01S, JMTHY JM601; IP68 or Friends PV2e; IP67			

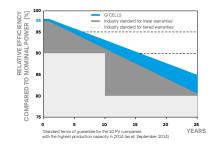


ELECTRICAL CHARACTERISTICS

PO\	WER CLASS			315	320	325	330	335
MIN	IIMUM PERFORMANCE AT STANDA	RD TEST CONDITIC	NS, STC ¹ (PC	WER TOLERANCE	+5W/-0W)			
Minimum	Power at MPP ¹	P _{MPP}	[W]	315	320	325	330	335
	Short Circuit Current ¹	I _{sc}	[A]	10.04	10.09	10.14	10.20	10.25
	Open Circuit Voltage ¹	V _{oc}	[V]	39.87	40.13	40.40	40.66	40.92
	Current at MPP	I _{MPP}	[A]	9.55	9.60	9.66	9.71	9.76
	Voltage at MPP	V _{MPP}	[V]	32.98	33.32	33.65	33.98	34.31
	Efficiency ¹	η	[%]	≥18.7	≥19.0	≥19.3	≥19.6	≥19.9
MIN	IIMUM PERFORMANCE AT NORMAL	OPERATING CONI	DITIONS, NM	OT ²				
	Power at MPP	P _{MPP}	[W]	235.8	239.5	243.2	247.0	250.7
imum	Short Circuit Current	I _{sc}	[A]	8.09	8.13	8.17	8.22	8.26
	Open Circuit Voltage	V _{oc}	[V]	37.59	37.84	38.09	38.34	38.59
Ξi	Current at MPP	I _{MPP}	[A]	7.52	7.56	7.60	7.64	7.69
	Voltage at MPP	V _{MPP}	[V]	31.36	31.68	32.00	32.31	32.62

¹Measurement tolerances P_{MPP} ±3%; I_{Sci} V_{oc} ±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

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.



Typical module performance under low irradiance conditions in comparison to STC conditions (25 $^{\circ}C$, 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	Nominal Module Operating Temperature	NMOT	[°C]	43±3

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage	V_{SYS}	[V]	1000 (IEC)/1000 (UL)	PV module classification	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]		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;	Number of Modules per Pallet	32	
This data sheet complies with DIN EN 50380.	Number of Pallets per Trailer (24t)	30	
	Number of Pallets per 40' HC-Container (26t)	26	
	Pallet Dimensions (L × W × H)	1745 × 1130 × 1170 mm	
UL 1703 (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.

Hanwha Q CELLS GmbH

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