

Q.PEAK DUO-G5 315-330

ENDURING HIGH PERFORMANCE





Q.ANTUM TECHNOLOGY: LOW LEVELISED COST OF ELECTRICITY

QCELLS

YIELD SECURITY ANTI PID TECHNOLOG (APT)

ITI LID TECHNO

UDE 11/2016 Quality Tested

> www.VDEinfo.com ID. 40032587

> > 2018

WINNER

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Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 19.9%.



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:



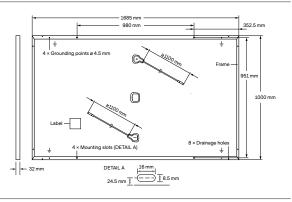


Rooftop arrays on commercial/industrial buildings



MECHANICAL SPECIFICATION

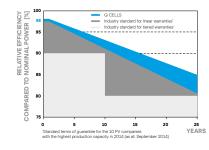
Format	1685mm × 1000mm × 32mm (including frame)
Weight	18.7kg
Front Cover	3.2 mm thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodised aluminium
Cell	6 × 20 monocrystalline Q.ANTUM solar half cells
Junction box	70-85mm × 50-70mm × 13-21mm Protection class IP67, with bypass diodes
Cable	4 mm² Solar cable; (+) ≥1100 mm, (–) ≥1100 mm
Connector	Stäubli MC4, Amphenol UTX, Renhe 05-6, Tonglin TL-Cable01S, JMTHY JM601; IP68 or Friends PV2e; IP67



		EL	ECTRICA	L CHARACTERISTI	CS		
PO	WER CLASS			315	320	325	330
MI	NIMUM PERFORMANCE AT STANDA	RD TEST CONDITIO	NS, STC ¹ (PC	WER TOLERANCE +5 W /	-0W)		
	Power at MPP ¹	P _{MPP}	[W]	315	320	325	330
_	Short Circuit Current ¹	I _{sc}	[A]	10.04	10.09	10.14	10.20
unm	Open Circuit Voltage ¹	V _{oc}	[V]	39.87	40.13	40.40	40.66
Minimu	Current at MPP	I _{MPP}	[A]	9.55	9.60	9.66	9.71
	Voltage at MPP	V _{MPP}	[V]	32.98	33.32	33.65	33.98
	Efficiency ¹	η	[%]	≥18.7	≥19.0	≥19.3	≥19.6
MI	NIMUM PERFORMANCE AT NORMAI	OPERATING CON	DITIONS, NM	OT ²			
	Power at MPP	P _{MPP}	[W]	235.3	239.0	242.8	246.5
Minimum	Short Circuit Current	I _{sc}	[A]	8.09	8.13	8.17	8.22
	Open Circuit Voltage	V _{oc}	[V]	37.52	37.77	38.02	38.27
	Current at MPP	I _{MPP}	[A]	7.52	7.56	7.60	7.64
	Voltage at MPP	V _{MPP}	[V]	31.30	31.62	31.94	32.25

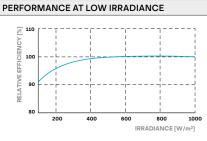
 $^{1}\text{Measurement tolerances P}_{\text{MPP}}\pm3\%; I_{\text{SC}}; V_{\text{CC}}\pm5\% \text{ at STC}: 1000 \text{W/m}^2, 25\pm2\,^{\circ}\text{C}, \text{AM } 1.5\text{G} \text{ according to IEC } 60904-3 \cdot ^{2}800 \text{W/m}^2, \text{NMOT}, \text{spectrum AM } 1.5\text{G} \text{ according to IEC } 1000 \text{W/m}^2, 1000 \text{W/m}^2$

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.



Typical module performance under low irradiance conditions in comparison to STC conditions (25 $^{\circ}\text{C},$ 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}	γ	[%/K]	-0.36	Normal Module Operating Temperature	NMOT	[°C]	43±3

PROPERTIES	FOD SV	STEM D	FSIGN
I KOI EKTIED			

Maximum System Voltage	V _{SYS}	[V]	1000	Safety Class	ll
Maximum Reverse Current	I _R	[A]	20	Fire Rating	С
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	
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PACKAGING INFORMATION

VDE Quality Tested, IEC 61215:2016; IEC 61730:2016, Application Class II;	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)	1760 × 1150 × 1190 mm
	Pallet Weight	642 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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