

The new Q.PEAK DUO-G5 solar module from Q CELLS impresses thanks to innovative Q.ANTUM DUO Technology, which enables particularly high performance on a small surface. 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 LEVELIZED COST OF ELECTRICITY

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 behavior.



ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID and Anti PID Technology¹, Hot-Spot Protect and Traceable Quality Tra.Q™.



EXTREME WEATHER RATING

High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa) regarding IEC.



A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 25-year linear performance guarantee².



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:















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



Front Cover 0.13 in (3.2 mm

Back Cover Composite film

Weight

Cable

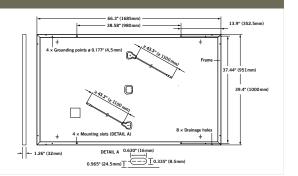
Frame Black anodized aluminum

Cell 6 × 20 monocrystalline Q.ANTUM solar half-cells

Junction box $2.76-3.35 \text{ in} \times 1.97-2.76 \text{ in} \times 0.51-0.83 \text{ in}$

 $(70-85\,\text{mm}\times 50-70\,\text{mm}\times 13-21\,\text{mm})$, decentralized, IP67 4 mm² Solar cable; (+) \geq 43.3 in (1100 mm), (-) \geq 43.3 in (1100 mm)

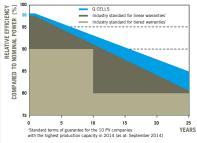
Connector Multi-Contact MC4, IP68



EL	ECTRICAL CHARACTERISTICS						
P0\	WER CLASS			315	320	325	330
MII	NIMUM PERFORMANCE AT STANDARD TEST CO	NDITIONS, STC1	POWER TOL	ERANCE +5 W / -0 W)			
Minimum	Power at MPP ¹	\mathbf{P}_{MPP}	[W]	315	320	325	330
	Short Circuit Current ¹	I _{sc}	[A]	10.04	10.09	10.14	10.20
	Open Circuit Voltage ¹	V _{oc}	[V]	39.87	40.13	40.40	40.66
.ii	Current at MPP ¹	I _{MPP}	[A]	9.55	9.60	9.66	9.71
	Voltage at MPP	\mathbf{V}_{MPP}	[V]	32.98	33.32	33.65	33.98
	Efficiency ¹	η	[%]	≥18.7	≥19.0	≥19.3	≥19.6
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT 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

 $^1\text{Measurement tolerances P}_{\text{MPP}} \pm 3\,\%; I_{\text{Sc}}, V_{\text{OC}} \pm 5\,\% \text{ at STC: } 1000\,\text{W/m}^2, 25 \pm 2\,^\circ\text{C}, \text{AM } 1.5\,\text{G} \text{ according to IEC } 60904\text{--}3 \cdot ^2800\,\text{W/m}^2, \text{NMOT, spectrum AM } 1.5\,\text{G} \text{ according to IEC } 1000\,\text{W/m}^2, 10000\,\text{W/m}^2, 10000\,\text{W/m}^2, 10000\,\text{W/m}^2, 10000\,\text{W/m}^2, 100$

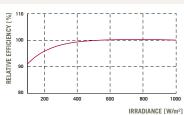
Q CELLS PERFORMANCE WARRANTY



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 organization of your respective country.

PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25 $^{\circ}\text{C},\ 1000\,\text{W/m}^2).$

TEMPERATURE COEFFICIEN	TS
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Temperature Coefficient of I _{sc}	α	[%/K]	+0.04	Temperature Coefficient of V_{oc}	β	[%/K]	-0.28
Temperature Coefficient of P _{MPP}	Υ	[%/K]	-0.37	Normal Module Operating Temperature	NMOT	[°F]	109 ±5.4 (43 ±3°C)

PROPERTIES FOR SYSTEM DESIGN							
Maximum System Voltage V _{sys}	[V]	1000 (IEC) / 1000 (UL)	Safety Class	II			
Maximum Series Fuse Rating	[A DC]	20	Fire Rating	C (IEC) / TYPE 1 (UL)			
Max. Design Load, push ²	[lbs/ft²]	75 (3600 Pa) / 55 (2667 Pa)	Permitted module temperature on continuous duty	-40°F up to +185°F (-40°C up to +85°C)			
Max. Test Load, Push / Pull ²	[lbs/ft²]	113 (5400 Pa) / 84 (4000 Pa)	² see installation manual				

QUALIFICATIONS AND CERTIFICATES UL 1703; VDE Quality Tested; CE-compliant; IEC 61215:2016; IEC 61730:201, application class A Number of Modules per Pallet Number of Pallets per 53' Trailer Number of Pallets per 40' High Cube Container Pallet Dimensions (L × W × H) 69.3 in × 45.3 in × 46.9 in (1760 mm × 1150 mm × 1190 mm)

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.

Pallet Weight

Hanwha Q CELLS America Inc.

1415 lbs (642 kg)