

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



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:















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



Weight

Cable

Front Cover **Back Cover**

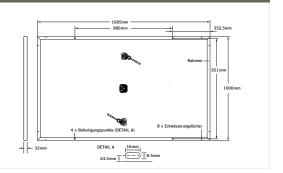
Frame Black anodized aluminum

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

2.76-3.35 in \times 1.97-2.76 in \times 0.51-0.83 in Junction box (70-85 mm \times 50-70 mm \times 13-21 mm), decentralized, IP67

 $4\,\text{mm}^2$ Solar cable; (+) $\geq 43.3\,\text{in}$ (1100 mm), (-) $\geq 43.3\,\text{in}$ (1100 mm)

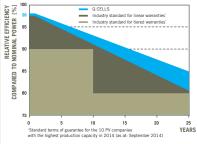
Multi-Contact MC4, IP65 and IP68 Connector



EL	ECTRICAL CHARACTERIS	TICS							
POWER CLASS				305	310	315	320	325	330
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC¹ (POWER TOLERANCE +5W / -OW)									
	Power at MPP ²	P _{MPP}	[W]	305	310	315	320	325	330
	Short Circuit Current*	I _{sc}	[A]	9.93	9.98	10.04	10.09	10.14	10.20
mm	Open Circuit Voltage*	V _{oc}	[V]	39.35	39.61	39.87	40.13	40.40	40.66
Minimum	Current at MPP*	I _{MPP}	[A]	9.44	9.50	9.55	9.60	9.66	9.71
	Voltage at MPP*	\mathbf{V}_{MPP}	[V]	32.30	32.64	32.98	33.32	33.65	33.98
	Efficiency ²	η	[%]	≥18.1	≥18.4	≥18.7	≥19.0	≥19.3	≥19.6
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOC3									
	Power at MPP ²	P_{MPP}	[W]	226.0	229.7	233.4	237.2	240.9	244.6
Ę	Short Circuit Current*	I _{sc}	[A]	8.00	8.05	8.09	8.14	8.18	8.22
Minimum	Open Circuit Voltage*	V _{oc}	[V]	36.80	37.05	37.30	37.54	37.79	38.04
	Current at MPP*	I _{MPP}	[A]	7.43	7.47	7.51	7.56	7.60	7.64
	Voltage at MPP*	\mathbf{V}_{MPP}	[V]	30.43	30.75	31.07	31.39	31.70	32.01
1100	00 W/m², 25 °C, spectrum AM 1.5 G	² Measurement tolerances STC ±	3%; NOC ±5%	3 800 W/m², NO	CT, spectrum AM 1.	5G * typical va	alues, actual values	may differ	

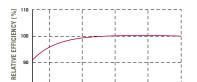
PERFORMANCE AT LOW IRRADIANCE

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.



Typical module performance under low irradiance conditions in comparison to STC conditions (25°C, 1000 W/m²).

800

 $(1760 \, \text{mm} \times 1150 \, \text{mm} \times 1190 \, \text{mm})$

1415 lbs (642 kg)

1000 IRRADIANCE [W/m²]

Temperature Coefficient of I _{sc}	α	[%/K]	+0.04	Temperature Coefficient of V_{oc}	β	[%/K]	-0.28
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.37	Normal Operating Cell Temperature	NOCT	[°F]	113 ±5.4 (45 ±3°C)

PROPERTIES FOR SYSTEM DE	SIGN				
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)	
Design load, push (UL) ²	[lbs/ft²]	75 (3600 Pa)	Permitted module temperature on continuous duty	-40 °F up to $+185$ °F (-40 °C up to $+85$ °C)	
Design load, pull (UL) ²	[lbs/ft²]	55.6 (2666 Pa)	² see installation manual		

QUALIFICATIONS AND CERTIFICATES	PACKAGING INFORMATION				
UL 1703; VDE Quality Tested; CE-compliant;	Number of Modules per Pallet	32			
IEC 61215 (Ed.2); IEC 61730 (Ed.1) application class A	Number of Pallets per 53' Trailer	30			
	Number of Pallets per 40' High Cube Container	26			
	Pallet Dimensions (L × W × H)	69.3 in × 45.3 in × 46.9 in			

Pallet Weight

of this product.





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