

PEAK DUO-65-315-3

Q.ANTUM SOLAR MODULE

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:







Rooftop arrays on commercial/industrial









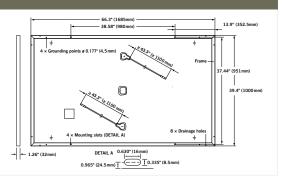
- ¹ APT test conditions according to IEC/TS 62804-1:2015, method B (-1500 V. 168 h)
- ² See data sheet on rear for further information.



Engineered in Germany

MECHANICAL SPECIFICATION

Format	66.3 in × 39.4 in × 1.26 in (including frame) (1685 mm × 1000 mm × 32 mm)
Weight	41.2 lbs (18.7 kg)
Front Cover	0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodized aluminum
Cell	6×20 monocrystalline Q.ANTUM solar half-cells
Junction box	2.76-3.35 in × 1.97-2.76 in × 0.51-0.83 in (70-85 mm × 50-70 mm × 13-21 mm), decentralized, IP67
Cable	4 mm^2 Solar cable; (+) $\ge 43.3 \text{ in } (1100 \text{ mm})$, (-) $\ge 43.3 \text{ in } (1100 \text{ mm})$
Connector	Multi-Contact MC4, IP68

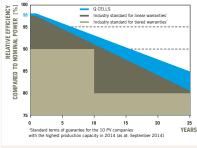


ELECTRICAL CHARACTERISTICS POWER CLASS 315 320 325 330 MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC1 (POWER TOLERANCE +5W / -0W) Power at MPP¹ P_{MPP} 320 325 330 [W] 315 10.09 Short Circuit Current¹ [A] 10.04 10.14 10.20 Isc Minimum **Open Circuit Voltage**¹ V_{oc} [V] 39.87 40.13 40.40 40.66 Current at MPP¹ [A] 9.55 9.60 9.66 9.71 IMPP Voltage at MPP V_{MPP} [V] 32.98 33.32 33.65 33.98 Efficiency¹ [%] ≥18.7 ≥19.0 ≥19.3 ≥19.6 η MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT² [W] Power at MPP 235.3 239.0 242.8 246.5 P_{MPP} **Short Circuit Current** [A] 8.09 8.13 8.17 8.22 Isc Minimum **Open Circuit Voltage** [V] 37.77 V_{oc} 37.52 38.02 38.27 **Current at MPP** [A] 7.52 7.56 7.60 7.64 IMPP [V] Voltage at MPP V_{MPP} 31.30 31.62 31.94 32.25

¹Measurement tolerances P_{MPP} ± 3%; I_{SC}, V_{OC} ± 5% at STC: 1000 W/m², 25 ± 2°C, AM 1.5G according to IEC 60904-3 · ²800 W/m², NMOT, spectrum AM 1.5G

Q CELLS PERFORMANCE WARRANTY

TEMPERATURE COEFFICIENTS



CE

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 $^{\rm o}\text{C},~1000\,\text{W/m^2}).$

Temperature Coefficient of Isc	α	[%/K]	+0.04	Temperature Coefficient of V_{oc}	β	[%/K]	-0.28
Temperature Coefficient of \mathbf{P}_{MPP}	Ŷ	[%/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 (1	EC) / 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 CER	TIFICATES			PACKAGING INFORMATION			
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			30
\wedge cc	Æ.			Number of Pallets per 40' High Cube Cont	ainer		26

Pallet Dimensions (L × W × H)

Pallet Weight 1415 lbs (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.

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 $69.3\,\text{in}\times45.3\,\text{in}\times46.9\,\text{in}\\(1760\,\text{mm}\times1150\,\text{mm}\times1190\,\text{mm})$