

Q.PEAK DUO BLK ML-G10+ 385-405

ENDURING HIGH PERFORMANCE





BREAKING THE 20% EFFICIENCY BARRIER

Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 20.9%.

THE MOST THOROUGH TESTING PROGRAMME IN THE INDUSTRY

Q CELLS is the first solar module manufacturer to pass the most comprehensive quality programme in the industry: The new "Quality Controlled PV" of the independent certification institute TÜV Rheinland.



INNOVATIVE ALL-WEATHER TECHNOLOGY

Optimal yields, whatever the weather with excellent low-light and temperature behavior.



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Long-term yield security with Anti LID Technology, 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).



A RELIABLE INVESTMENT

Inclusive 25-year product warranty and 25-year linear performance warranty².

 1 APT test conditions according to IEC /TS 62804-1:2015, method A (–1500 V, 96h) 2 See data sheet on rear for further information.





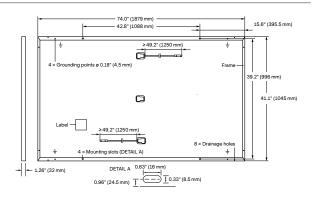


Rooftop arrays on residential buildings



MECHANICAL SPECIFICATION

Format	74.0 in × 41.1 in × 1.26 in (including frame) (1879 mm × 1045 mm × 32 mm)
Weight	48.5 lbs (22.0 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 × 22 monocrystalline Q.ANTUM solar half cells
Junction Box	2.09-3.98 in × 1.26-2.36 in × 0.59-0.71 in (53-101 mm × 32-60 mm × 15-18 mm), IP67, with bypass diodes
Cable	4 mm² Solar cable; (+) ≥49.2 in (1250 mm), (-) ≥49.2 in (1250 mm)
Connector	Stäubli MC4; IP68

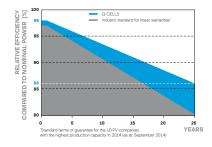


ELECTRICAL CHARACTERISTICS

PO\	VER CLASS			385	390	395	400	405
MIN	IIMUM PERFORMANCE AT STANDAR	RD TEST CONDITIO	NS, STC ¹ (PC	WER TOLERANCE +	5W/-0W)			
	Power at MPP ¹	P _{MPP}	[W]	385	390	395	400	405
_	Short Circuit Current ¹	I _{sc}	[A]	11.04	11.07	11.10	11.14	11.17
unu.	Open Circuit Voltage ¹	V _{oc}	[V]	45.19	45.23	45.27	45.30	45.34
Minir	Current at MPP	I _{MPP}	[A]	10.59	10.65	10.71	10.77	10.83
2 .	Voltage at MPP	V _{MPP}	[V]	36.36	36.62	36.88	37.13	37.39
	Efficiency1	η	[%]	≥19.6	≥19.9	≥20.1	≥20.4	≥20.6
MIN	IIMUM PERFORMANCE AT NORMAL	OPERATING CONI	DITIONS, NM	OT ²				
	Power at MPP	P _{MPP}	[W]	288.8	292.6	296.3	300.1	303.8
nimum	Short Circuit Current	I _{sc}	[A]	8.90	8.92	8.95	8.97	9.00
	Open Circuit Voltage	V _{oc}	[V]	42.62	42.65	42.69	42.72	42.76
Mir	Current at MPP	I _{MPP}	[A]	8.35	8.41	8.46	8.51	8.57
	Voltage at MPP	V	[V]	34.59	34.81	35.03	35.25	35.46

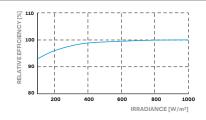
¹Measurement tolerances P_{MPP} ± 3%; I_{SC}; V_{oc} ± 5% at STC: 1000 W/m², 25 ± 2°C, AM 1.5 according to IEC 60904-3 • ²800 W/m², NMOT, spectrum AM 1.5

Q CELLS PERFORMANCE WARRANTY



At least 98% of nominal power during first year. Thereafter max. 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At least 86% 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.



PERFORMANCE AT LOW IRRADIANCE

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

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I _{sc}	α	[%/K]	+0.04	Temperature Coefficient of Voc	β	[%/K]	-0.27
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.34	Nominal Module Operating Temperature	NMOT	[°F]	109±5.4 (43±3°C)

PROPERTIES FOR SYSTEM DESIGN

	Pa)/55 (2660 Pa) Permitted Module Temperatu Pa)/84 (4000 Pa) on Continuous Duty	re -40°F up to +185°F (-40°C up to +85°C)
Max. Design Load, Push / Pull ³ [lbs/ft ²] 75 (3600		
Maximum Series Fuse Rating [A DC]	20 Fire Rating based on ANSI / UI	L 61730 TYPE 2
Maximum System Voltage V _{SYS} [V] 1000	0 (IEC)/1000 (UL) PV module classification	Class II

³ See Installation Manual

QUALIFICATIONS AND CERTIFICATES

UL 61730, CE-compliant, Quality Controlled PV - TÜV Rheinland, IEC 61215:2016, IEC 61730:2016, U.S. Patent No. 9,893,215 (solar cells). QCPV Certification ongoing.







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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