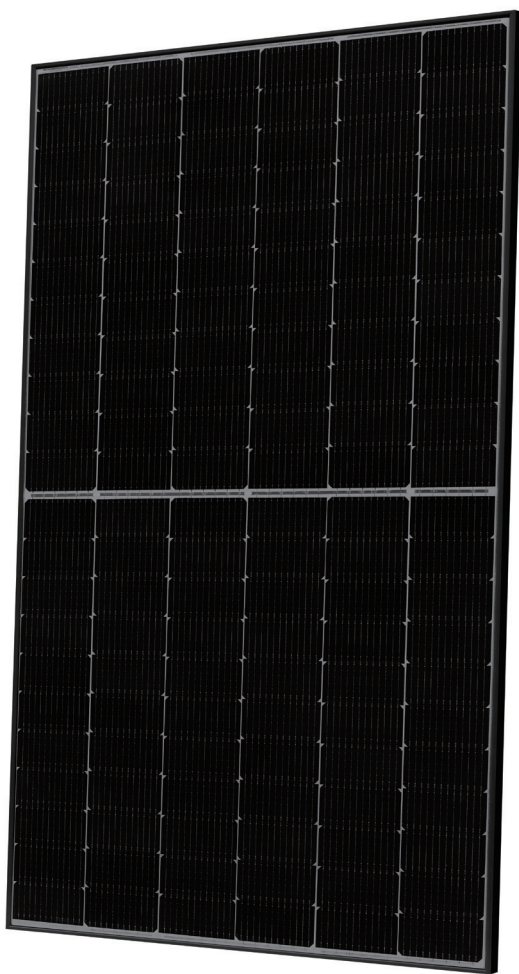


Q.PEAK DUO ML-G10 SERIES



395-415 Wp | 132 Cells
21.1% Maximum Module Efficiency

MODEL Q.PEAK DUO ML-G10



Breaking the 21% efficiency barrier

Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 21.1%.



Enduring high performance

Long-term yield security with Anti LeTID Technology, Anti PID Technology¹, Hot-Spot Protect.



Extreme weather rating

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



Innovative all-weather technology

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



A reliable investment

Inclusive 12-year product warranty and 25-year linear performance warranty².



The most thorough testing programme in the industry

Qcells 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.

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

The ideal solution for:



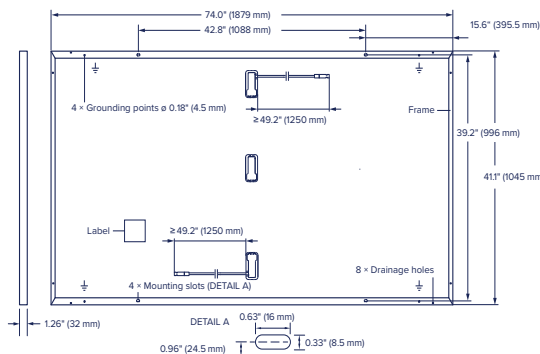
Rooftop arrays on residential buildings



Q.PEAK DUO ML-G10 SERIES

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 anodised aluminium
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), Protection class IP67, with bypass diodes
Cable	4 mm ² Solar cable; (+) ≥ 49.2 in (1250 mm), (-) ≥ 49.2 in (1250 mm)
Connector	Stäubli MC4, Hanwha Q CELLS HQC4; IP68



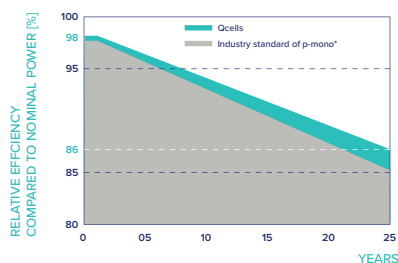
Electrical Characteristics

		395	400	405	410	415	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5W/-0W)							
Minimum	Power at MPP ¹	P_{MPP}	395	400	405	410	415
	Short Circuit Current ¹	I_{SC}	11.13	11.16	11.19	11.22	11.26
	Open Circuit Voltage ¹	V_{OC}	45.03	45.06	45.09	45.13	45.16
	Current at MPP	I_{MPP}	10.58	10.64	10.70	10.76	10.82
	Voltage at MPP	V_{MPP}	37.32	37.59	37.85	38.11	38.37
	Efficiency ¹	η	≥ 20.1	≥ 20.4	≥ 20.6	≥ 20.9	≥ 21.1

MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT²

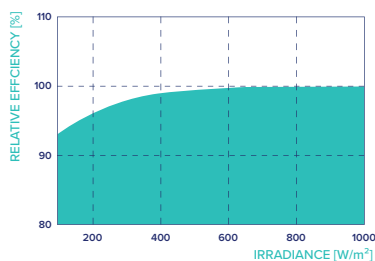
		395	400	405	410	415	
Minimum	Power at MPP	P_{MPP}	296.4	300.1	303.9	307.6	311.4
	Short Circuit Current	I_{SC}	8.97	8.99	9.02	9.04	9.07
	Open Circuit Voltage	V_{OC}	42.46	42.49	42.52	42.56	42.59
	Current at MPP	I_{MPP}	8.33	8.38	8.43	8.48	8.53
	Voltage at MPP	V_{MPP}	35.59	35.82	36.04	36.27	36.49

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



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 Qcells sales organisation of your respective country.



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

*Standard terms of guarantee for the 5 PV companies with the highest production capacity in 2021 (February 2021)

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]	-0.34	Nominal 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)	PV module classification	Class II
Maximum Series Fuse Rating		[A DC]	20	Fire Rating based on ANSI/UL 61730	TYPE 2
Max. Design Load, Push/Pull ³		[lbs/ft ²]	75 (3600 Pa)/55 (2660 Pa)	Permitted Module Temperature on Continuous Duty	-40°F up to +185°F (-40°C up to +85°C)
Max. Test Load, Push/Pull ³		[lbs/ft ²]	113 (5400 Pa)/84 (4000 Pa)		

³ See Installation Manual

Qualifications and Certificates

Quality Controlled PV -
TÜV Rheinland;
IEC 61215:2016;
IEC 61730:2016.
This data sheet complies
with DIN EN 50380.



Qcells pursues minimizing paper output in consideration of the global environment.

Note: Installation instructions must be followed. Contact our technical service for further information on approved installation of this product.
Hanwha Q CELLS America Inc. 400 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA | TEL +1 949 748 59 96 | EMAIL hqc-inquiry@qcells.com | WEB www.qcells.com

qcells