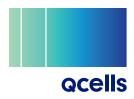
Q.PEAK DUO BLK ML-G10+ SERIES



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

MODEL Q.PEAK DUO BLK ML-G10.a+ Q.PEAK DUO BLK ML-G10+





Breaking the 21% efficiency barrier

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



A reliable investment Inclusive 25-year product warranty and 25-year linear



Inclusive 25-year product warranty and 25-year linear performance warranty¹.

Enduring high performance Long-term yield security with Anti LeTID

Long-term yield security with Anti LeTID Technology, Anti PID Technology² and 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.



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



The ideal solution for:

Rooftop arrays on residential buildings

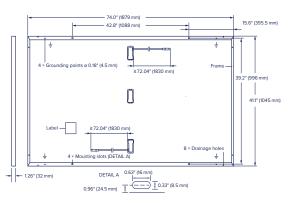




Q.PEAK DUO BLK ML-G10+ SERIES

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), IP67, with bypass diodes
Cable	4 mm^2 Solar cable; (+) \ge 72.04 in (1830 mm), (-) \ge 72.04 in (1830 mm)
Connector	Stäubli MC4; IP68



Electrical Characteristics

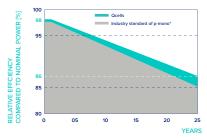
PC	WER CLASS			395	400	405	410	415		
MIN	MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5 W/-0 W)									
	Power at MPP ¹	P _{MPP}	[W]	395	400	405	410	415		
_	Short Circuit Current ¹	I _{sc}	[A]	11.02	11.05	11.08	11.11	11.14		
- unu	Open Circuit Voltage ¹	V _{oc}	[V]	45.20	45.24	45.27	45.31	45.34		
ili	Current at MPP	I _{MPP}	[A]	10.48	10.54	10.60	10.65	10.71		
~	Voltage at MPP	V _{MPP}	[V]	37.68	37.95	38.22	38.48	38.74		
	Efficiency ¹	η	[%]	≥20.1	≥20.4	≥20.6	≥20.9	≥21.1		

MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT²

Minimum	Power at MPP	P _{MPP}	[W]	296.4	300.1	303.9	307.6	311.4
	Short Circuit Current	I _{sc}	[A]	8.88	8.91	8.93	8.95	8.98
	Open Circuit Voltage	V _{oc}	[V]	42.63	42.66	42.69	42.73	42.76
	Current at MPP	I _{MPP}	[A]	8.25	8.30	8.35	8.40	8.45
	Voltage at MPP	V	[V]	35.93	36.16	36.39	36.61	36.84

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

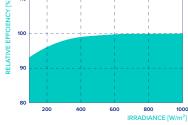
Qcells PERFORMANCE WARRANTY



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 Qcells sales organisation of your respective country.

S 110 S 110



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	$V_{\rm sys}$	[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	–40°F up to +185°F
Max. Test Load, Push/Pull ³		[lbs/ft ²]	113 (5400 Pa)/84 (4000 Pa)	on Continuous Duty	(-40°C up to +85°C)

³ See Installation Manual

Qualifications and Certificates

UL61730-1 & UL61730-2, CE-compliant, Quality Controlled PV - TÜV Rheinland, IEC 61215:2016, IEC 61730:2016, U.S. Patent No. 9,893,215 (solar cells),



*Contact your Qcells Sales Representative for details regarding the module's eligibility to be Buy American Act (BAA) compliant.

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



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