



Q.PEAK DUO AC

Domestic Content Option Available

- Q.PEAK DUO BLK ML-G10.C1+/AC
- Q.PEAK DUO BLK ML-G10.D1+/AC



Q.PEAK DUO AC

AC module powered by Q.ANTUM DUO Z Technology



Monitoring and Control

The Q.OMMAND PRO App enables installers to monitor system performance at the module level, while the user-friendly Q.OMMAND HOME App provides homeowners with real-time PV production insights.



Superior Module Performance

Q.PEAK DUO AC is powered by Q.ANTUM DUO Z Technology, boosting module efficiency up to 21.1% which results in more power production over time.



Dependably Backed by One Warrantor

25-year product and performance warranty with an integrated module and microinverter solution from Qcells.



Optimized Power with Integrated Safety

The module provides optimized power output while also acting as a rapid shutdown compliant solution for optimal system safety.



Streamlined Installation and Product Management

Fast installation enabled by integrated Qcells microinverter. Improved inventory management enabled by reduced SKU counts and one complete module and MLPE solution. Seamlessly couples with Qcells' residential energy storage system to form one complete Q.HOME SMART system.



Top Quality Customer Support

While the detachable microinverter simplifies on-site maintenance, Qcells' first-class customer support offers rapid system troubleshooting.



Includes Domestic Content

Q.PEAK DUO BLK ML-G10.XY+/AC solar modules ("XY" can be "C1, D1") contain U.S. manufactured components which can contribute to qualifying for the 10% domestic content bonus for applicable investment and production tax credits.¹ Module and microinverter both assembled in the USA by America's No.1 residential module manufacturer.

¹ This statement should not be relied on as tax advice and is subject to change based on changes made to applicable law and/or implementing rules, regulations or guidance. Please consult a qualified tax professional for specific advice.

The ideal solution for:

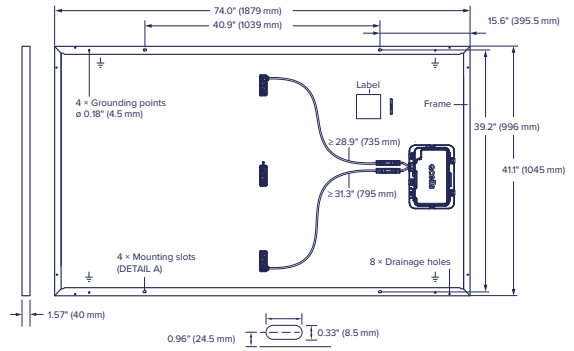


Rooftop arrays on residential buildings

Mechanical Specification

Format	74.0 in × 41.1 in × 1.57 in (including frame) (1879 mm × 1045 mm × 40 mm)
Weight	52.36 lbs (23.75 kg)
Front Cover	0.13 in (3.2 mm) thermally pre-stressed ARC solar glass
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), Protection class IP68, with bypass diodes
Microinverter	9.61 in × 5.79 in × 1.17 in (244 mm × 147 mm × 29.6 mm), Protection class IP67/NEMA Type 6
DC Cable	4 mm ² Solar cable; (+) ≥ 31.3 in (795 mm), (-) ≥ 28.9 in (735 mm)
DC Connector	Stäubli MC4; IP68

(See Installation Manual p.10 for guide on accessories)



AC Output Electrical Characteristics

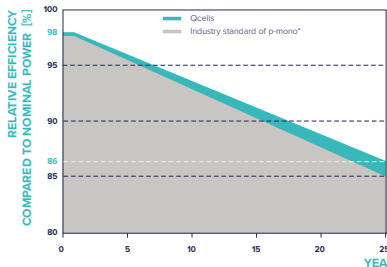
Q.MI.349B-G1 (Model Name)			
Peak Output Power	[VA] 366	Power Factor (adjustable)	0.85 leading...0.85 lagging
Max Continuous Output Power	[VA] 349	Max. number of AC Modules per Q.HOME COMBINER 80 G1	[ea] 44 (Q.HOME COMBINER CB: Max 4)
Nominal (L-L) Voltage / Range	[V] 240 / 211 to 264	Max Units per 20 A (L-L) Branch Circuit	[ea] 11
Nominal Rated Output Current	[A] 1.45	Total Harmonic Distortion	[%] <5
Nominal Frequency / Range	[Hz] 60 / 59.3 to 60.5	Overvoltage Class AC Port	III
Extended Frequency Range	[Hz] 50 to 66	Night-Time Power Consumption	[mW] 60
Power Factor at Rated Power	1.0	CEC Efficiency	[%] 97

DC Power Electrical Characteristics

POWER CLASS	395	400	405	410	415	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5W/-0W)						
Power at MPP¹	P_{MPP} [W]	395	400	405	410	415
Short Circuit Current¹	I_{SC} [A]	11.10	11.14	11.17	11.20	11.23
Open Circuit Voltage¹	V_{OC} [V]	45.27	45.30	45.34	45.37	45.41
Current at MPP	I_{MPP} [A]	10.71	10.77	10.83	10.89	10.95
Voltage at MPP	V_{MPP} [V]	36.88	37.13	37.39	37.64	37.89
Efficiency¹	η [%]	≥ 20.1	≥ 20.4	≥ 20.6	≥ 20.9	≥ 21.1

¹ Measurement 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

Qcells PERFORMANCE WARRANTY

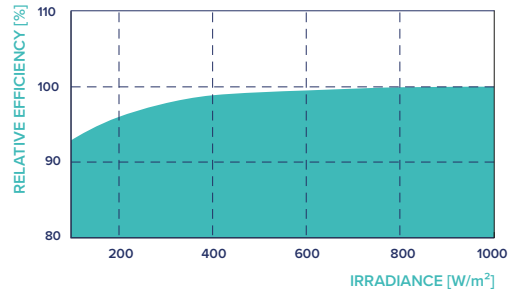


At least 98% of nominal DC power during first year. Thereafter max. 0.5% degradation per year. At least 93.5% of nominal DC power up to 10 years. At least 86% of nominal DC power up to 25 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Qcells sales organization of your respective country.

¹ Standard terms of guarantee for the 5 PV companies with the highest production capacity in 2021 (February 2021)

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 V_{OC}	β [%/K]	-0.27
Temperature Coefficient of P_{MPP}	γ [%/K]	-0.34			

Properties for System Design

Maximum System Voltage	V_{SYS} [V]	1000	PV Module Classification	Class II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating Based on ANSI/UL 61730	C / TYPE 2
Max. Push Load, Test / Design²	[lbs / ft ²] 113 (5400 Pa) / 75 (3600 Pa)		Storage Temperature Range³	-4 °F up to +113 °F (-20 °C up to +45 °C)
Max. Pull Load, Test / Design²	[lbs / ft ²] 113 (5400 Pa) / 75 (3600 Pa)		Permitted Module Temperature on Continuous Duty³	-40 °F up to +140 °F (-40 °C up to +60 °C)

² See Installation Manual

³ According to the Q.MI.349B-G1, the maximum temperature is stated as "60 °C (+140 °F)", but the maximum temperature of the connected DC module is up to "+158 °F (+70 °C)".

Qualifications and Certificates

Base DC module (Q.PEAK DUO BLK ML-G10.Y+ solar module series, where "Y" can be any letter between A to W.)
UL 61730-1 & UL 61730-2, CE-compliant;
IEC 61215:2021; IEC 61730:2023.

Qcells Microinverter (Q.MI.349B-G1)
This product is UL listed as PV Rapid Shut Down Equipment
UL1741, UL 1741SA, UL 1741SB, CSA C22.2 No 107.

AC Module (Q.PEAK DUO BLK ML-G10.XY+/AC solar module series, where "X" can be any letter between A to W and "Y" can be any number between 1 to 9.)
UL 1741, CSA C22.2 No. 107, IEEE E1547.



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.

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