Solar simplified.

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 trusted PERC cell technology

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] The microinverter and module are assembled in Michigan and Georgia respectively.

Dependably Backed by One Warrantor

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

Simplified Installation

Fast installation enabled by an integrated Qcells microinverter with built-in rapid shutdown for enhanced safety, combined with a design that reduces SKU complexity and ensures seamless integration with Qcells products and accessories.

Proven Module Performance & Durability

Tried and trusted, top-quality mono-PERC module technology with high-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (5400 Pa).

Far Beyond the Standard

Qcells' comprehensive quality program ensures high long-term yields and the reliability of your solar system.

Top Quality Customer Support

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

[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.

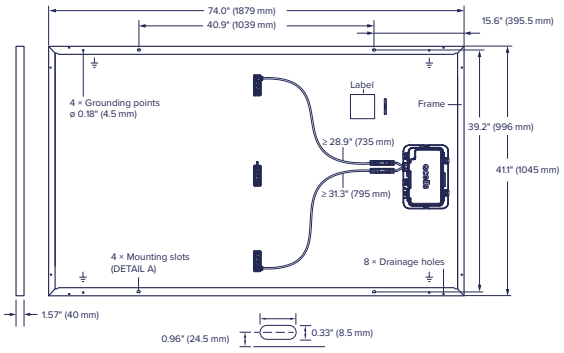
The ideal solution for:

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 mm² 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 +5 W / −0 W)								
Minimum	**Power at MPP[1]**	P_{MPP}	[W]	395	400	405	410	415
	Short Circuit Current[1]	I_{SC}	[A]	11.10	11.14	11.17	11.20	11.23
	Open Circuit Voltage[1]	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
	Efficiency[1]	η	[%]	≥ 20.1	≥ 20.4	≥ 20.6	≥ 20.9	≥ 21.1

[1] Measurement 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 • [2]800 W/m², NMOT, spectrum AM 1.5

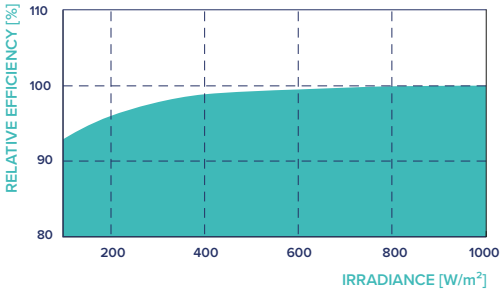
Qcells Performance Warranty

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.

*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 / Design[2]		[lbs / ft²]	113 (5400 Pa) / 75 (3600 Pa)	**Storage Temperature Range[3]**	−4 °F up to +113 °F (−20 °C up to +45 °C)
Max. Pull Load, Test / Design[2]		[lbs / ft²]	113 (5400 Pa) / 75 (3600 Pa)	**Permitted Module Temperature on Continuous Duty[3]**	−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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