



**CITY OF PLAINFIELD**  
 HISTORIC PRESERVATION COMMISSION  
 PLAINFIELD CITY HALL  
 515 WATCHUNG AVENUE, ROOM 202  
 PLAINFIELD, NEW JERSEY 07060  
 (908) 753-3580 - FAX (908) 753-3070



**CITY OF PLAINFIELD HISTORIC PRESERVATION COMMISSION  
 APPLICATION FOR CERTIFICATION OF APPROPRIATENESS**

DATE RECEIVED \_\_\_\_\_

APPLICATION # 2022-72

**Applicant(s):**

Name: Momentum Solar

Address: 325 High St Metuchen

email: permits@momentumsolar.com

Tele. #: (day) 732 366 1891 (eve) \_\_\_\_\_

(fax) 8482919798

**Relationship of applicant to property:**

Owner(s) [ ]

Lessee [ ]

Prop Under Contract []

Other (specify) [ ]

Explanation if Other \_\_\_\_\_

**OWNER(S), IF DIFFERENT THAN APPLICANT:**

Name: Jorge Pena

Address: 800-016 Central Ave

email: \_\_\_\_\_

Telephone Number: (Day) 917 731 7120 (Eve) \_\_\_\_\_

Address of the property: 800-016 Central Ave

Block: 700

Lot: 5

Historic District: \_\_\_\_\_

**Existing use of the property:**

Single family residential

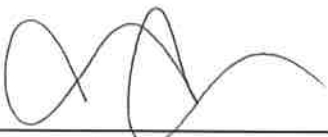

**Describe in detail the proposed work to be done at the property:**

Rooftop solar install

Each application must be accompanied by sketches, drawings, photographs, descriptions or other information sufficient to show the proposed alterations, additions, changes or new construction. The Commission may require the subsequent submission of such additional materials as it reasonably requires to make an informed decision. A submission shall include:

- A photograph of each elevation of the structure.
- Fifteen (15) copies of drawings, photographs, material brochures, samples, specifications or information that may be necessary to assist the Commission.
- Fifteen (15) copies of a survey, or if applicable, a site plan showing the location of new and existing structures on the site and their location with respect to the building line, property lines, and the front of those buildings or structures immediately adjacent to each side of the lot to be built upon.
- Fifteen (15) copies of facade elevation(s), if applicable, of the proposed work in sufficient detail to identify the limits and location of the proposed work, and existing and proposed materials to be used.
- \$70.00 application fee (check or money order made to the City of Plainfield).

*By signing this application, I hereby certify that the owner of record authorizes the proposed work and I have been authorized by the owner to make this application as his/her authorized agent. By signing this application the owner hereby grants authorization to the Commission members, and its professional and support staff to enter the property in question for inspection purposes.*

	<i>Alexa Catalano</i>	<i>12-6-22</i>
Signature of Applicant(s)	(Print Name)	Date
	<i>Jorge Pena</i>	<i>12-6-22</i>
Signature of Owner(s) (if different than applicant)	(Print Name)	Date

Submittal of this application form properly signed, with the indicated copies of documents and the application fee will constitute a complete application. Upon receipt of a complete application the Board Secretary will schedule the application with the Commission. The applicant delays his/her own application if all of these required items are not submitted. The Commission shall reach a decision on the application within forty-five (45) days of submission of a complete application. The applicant must appear in front of the Commission in order to present the application during the public hearing on the scheduled date.

*Certificate of Appropriateness application adopted by the Historic Preservation Commission 1/22/13*











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**Q.ANTUM DUO Z**

PRELIMINARY

# Q.PEAK DUO BLK-G10+ 350-370

ENDURING HIGH  
PERFORMANCE



Quality  
Controlled PV

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#### 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 behaviour.



#### ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID Technology, Anti PID Technology<sup>1</sup>, Hot-Spot Protect and Traceable Quality Tra.Q™.



#### EXTREME WEATHER RATING

High-tech aluminium 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 warranty<sup>2</sup>.

<sup>1</sup> APT test conditions according to IEC/TS 62804-1:2015, method A (-1500V, 96h)

<sup>2</sup> See data sheet on rear for further information.

#### THE IDEAL SOLUTION FOR:



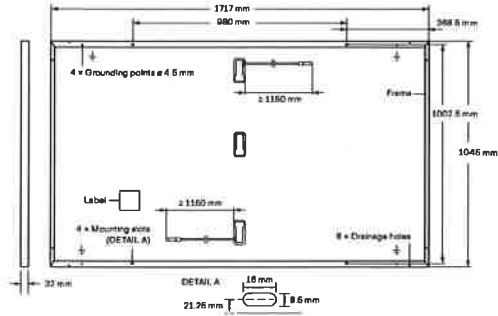
Rooftop arrays on  
residential buildings

Engineered in Germany

**Q CELLS**

## MECHANICAL SPECIFICATION

Format	1717 mm × 1045 mm × 32 mm (including frame)
Weight	19.9 kg
Front Cover	3.2 mm thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodised aluminium
Cell	6 × 20 monocrystalline Q CELLS solar half cells
Junction box	53-101 mm × 32-60 mm × 15-18 mm Protection class IP67, with bypass diodes
Cable	4 mm <sup>2</sup> Solar cable; (+) ≥ 1150 mm, (-) ≥ 1150 mm
Connector	Stäubli MC4; IP68

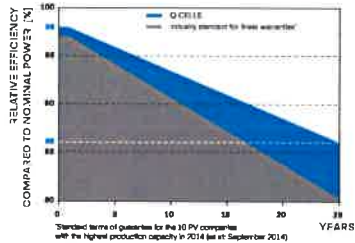


## ELECTRICAL CHARACTERISTICS

POWER CLASS			350	355	360	365	370	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC <sup>1</sup> (POWER TOLERANCE +5W / -0W)								
Minimum	Power at MPP <sup>1</sup>	$P_{MPP}$	[W]	350	355	360	365	370
	Short Circuit Current <sup>1</sup>	$I_{SC}$	[A]	10.97	11.00	11.04	11.07	11.10
	Open Circuit Voltage <sup>1</sup>	$V_{OC}$	[V]	41.11	41.14	41.18	41.21	41.24
	Current at MPP	$I_{MPP}$	[A]	10.37	10.43	10.49	10.56	10.62
	Voltage at MPP	$V_{MPP}$	[V]	33.76	34.03	34.31	34.58	34.84
	Efficiency <sup>1</sup>	$\eta$	[%]	>19.5	≥19.8	≥20.1	≥20.3	≥20.6
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT <sup>2</sup>								
Minimum	Power at MPP	$P_{MPP}$	[W]	262.6	266.3	270.1	273.8	277.6
	Short Circuit Current	$I_{SC}$	[A]	8.84	8.87	8.89	8.92	8.95
	Open Circuit Voltage	$V_{OC}$	[V]	38.77	38.80	38.83	38.86	38.90
	Current at MPP	$I_{MPP}$	[A]	8.14	8.20	8.26	8.31	8.37
	Voltage at MPP	$V_{MPP}$	[V]	32.24	32.48	32.71	32.94	33.17

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

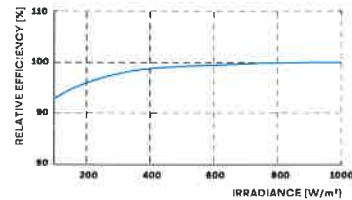
### Q CELLS PERFORMANCE WARRANTY



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/m<sup>2</sup>)

### TEMPERATURE COEFFICIENTS

Temperature Coefficient of $I_{SC}$	$\alpha$	[%/K]	+0.04	Temperature Coefficient of $V_{OC}$	$\beta$	[%/K]	-0.27
Temperature Coefficient of $P_{MPP}$	$\gamma$	[%/K]	-0.34	Nominal Module Operating Temperature	NMOT	[°C]	43 ± 3

## PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage	$V_{SYS}$	[V]	1000	PV module classification	Class II
Maximum Reverse Current	$I_R$	[A]	20	Fire Rating based on ANSI / UL 61730	C / TYPE 2
Max. Design Load, Push / Pull		[Pa]	3600 / 2660	Permitted Module Temperature on Continuous Duty	-40 °C - +85 °C
Max. Test Load, Push / Pull		[Pa]	5400 / 4000		

## QUALIFICATIONS AND CERTIFICATES

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

Hanwha Q CELLS GmbH

Sonnenallee 17-21, 06766 Bitterfeld-Wolfen, Germany | TEL +49 (0)3494 66 99-23444 | FAX +49 (0)3494 66 99-23000 | EMAIL sales@q-cells.com | WEB www.q-cells.com

Specifications subject to technical changes • Q CELLS G PEAK DUC BLK-G10-350-370\_2021-08\_Rev01\_EN

Engineered in Germany