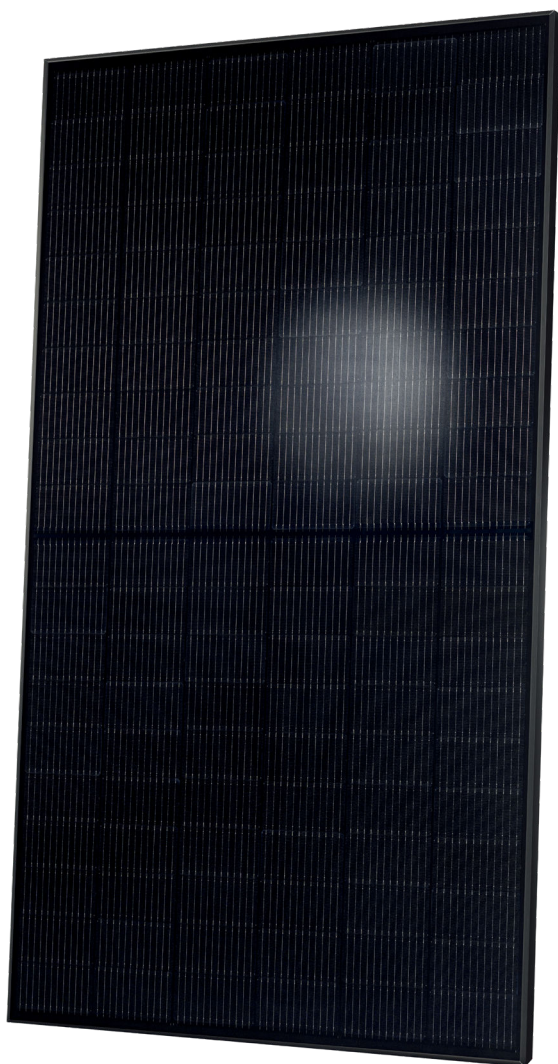


# Q.PEAK DUO BLK-G10+ SERIES



360-365 Wp | 120 Cells  
20.3% Maximum Module Efficiency

MODEL Q.PEAK DUO BLK-G10+ / AC



## Q.ANTUM TECHNOLOGY: Low leveled cost of electricity

Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 20.3%.



## A reliable investment

Inclusive 25-year product warranty and 25-year linear performance warranty<sup>1</sup>.



## Enduring high performance

Long-term yield security with Anti LeTID Technology, Anti PID Technology<sup>2</sup>, Hot-Spot Protect.



## Extreme weather rating

High-tech aluminium alloy frame, certified for high snow (8100 Pa) and wind loads (5400 Pa).



## Innovative all-weather technology

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



## State of the art module technology

Q.ANTUM DUO Z Technology and the integrated high-powered Enphase IQ 7+ Microinverter achieving maximum system efficiency.



## Reliable energy monitoring

Seamless management with the intelligent Enphase Enlighten™ monitoring system.



## Rapid shutdown compliant

Built-in rapid shutdown with no additional components required.

<sup>1</sup> See data sheet on rear for further information.

<sup>2</sup> APT test conditions according to IEC/TS 62804-1:2015, method A (~1500 V, 96 h)

### The ideal solution for:



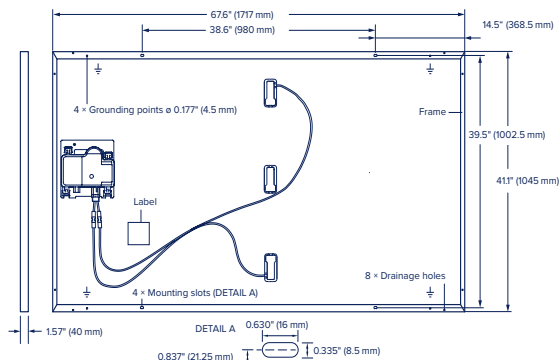
Rooftop arrays on residential buildings



# Q.PEAK DUO BLK-G10+ SERIES

## Mechanical Specification

Format	67.6 in × 41.1 in × 1.57 in (including frame) (1717 mm × 1045 mm × 40 mm)
Weight	46.3 lbs (21.0 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 × 20 monocrystalline Q.ANTUM solar half cells
Junction box	2.09-3.98 × 1.26-2.36 × 0.59-0.71 in (53-101 mm × 32-60 mm × 15-18 mm), Protection class IP67, with bypass diodes
Cable	4 mm <sup>2</sup> Solar cable; (+) ≥ 45.3 in (1150 mm), (-) ≥ 28.7 in (730 mm)
Connector	Stäubli MC4; IP68



## AC Output Electrical characteristics

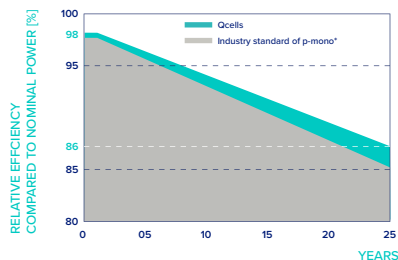
IQ7PLUS-72-ACM-US OR IQ7PLUS-72-E-ACM-US					
Peak Output Power	[VA]	295	AC Short Circuit Fault Current over 3 Cycles	[VA]	5.8 Arms
Max. Continuous Output Power	[VA]	290	Max. Units per 20A (L-L) Branch Circuit	[VA]	13
Nominal (L-L) Voltage / Range	[V]	240 / 211 ~ 264	Oversvoltage Class AC Port	[V]	III
Max. Continuous Output Current	[A]	1.21	AC Port Backfeed Current	[A]	18 mA
Nominal Frequency	[Hz]	60	Power Factor Setting	[Hz]	1
Extended Frequency Range	[Hz]	47 - 68	Power Factor (adjustable)	[Hz]	0.85 leading ... 0.85 lagging

## DC Electrical characteristics

POWER CLASS	360		365		360		365		
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC <sup>1</sup> (POWER TOLERANCE +5W/-0W)									
Min. Power at MPP <sup>1</sup>	P <sub>MPP</sub>	[W]	360	365	Min. Current at MPP	I <sub>MPP</sub>	[A]	10.49	10.56
Min. Short Circuit Current <sup>1</sup>	I <sub>SC</sub>	[A]	11.04	11.07	Min. Voltage at MPP	V <sub>MPP</sub>	[V]	34.31	34.58
Min. Open Circuit Voltage <sup>1</sup>	V <sub>OC</sub>	[V]	41.18	41.21	Min. Efficiency <sup>1</sup>	η	[%]	≥ 20.1	≥ 20.3

<sup>1</sup> MEASUREMENT TOLERANCES P<sub>MPP</sub> ± 3%; I<sub>SC</sub>; V<sub>OC</sub> ± 5% AT STC; 1000 W/m<sup>2</sup>, 25 ± 2°C, AM 1.5 ACCORDING TO IEC 60904-3

## Qcells PERFORMANCE WARRANTY

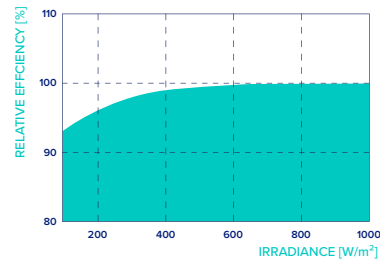


At least 98% of nominal power during first year. Thereafter max. 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At least 86% of nominal power up to 25 years.

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

<sup>\*</sup>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/m<sup>2</sup>).

## TEMPERATURE COEFFICIENTS

Temperature Coefficient of I <sub>SC</sub>	α	[%/K]	+0.04	Temperature Coefficient of V <sub>OC</sub>	β	[%/K]	-0.27
Temperature Coefficient of P <sub>MPP</sub>	γ	[%/K]	-0.34	Nominal Module Operating Temperature	NMOT	[°F]	109 ± 5.4 (43 ± 3°C)

## Properties for System Design

Maximum System Voltage	V <sub>sys</sub>	[V]	1000	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 <sup>3</sup>	[lbs/ft <sup>2</sup> ]	113 (5400 Pa) / 75 (3600 Pa)	Permitted Module Temperature on Continuous Duty	-40°F up to +185°F (-40°C up to +85°C)	
Max. Test Load, Push/Pull <sup>3</sup>	[lbs/ft <sup>2</sup> ]	169 (8100 Pa) / 113 (5400 Pa)			

<sup>3</sup> See Installation Manual

## Qualifications and Certificates

**Solar module:** UL 61730, U.S. Patent No. 9,893,215 (solar cells);  
**Enphase micro inverter:** UL 1741-SA, UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 1071-01, Rapid Shutdown Compliant per NEC-2014 & 2017 & C22.1-2015



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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