

powered by

**Q.ANTUM DUO Z**

**DRAFT**

# Q.PEAK DUO BLK-G10+ / AC 360-365

Q.ANTUM DUO SOLAR MODULE  
WITH INTEGRATED MICROINVERTER



### Q.ANTUM TECHNOLOGY: LOW LEVELIZED COST OF ELECTRICITY

Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 20.6%.



### INNOVATIVE ALL-WEATHER TECHNOLOGY

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



### ENDURING HIGH PERFORMANCE

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



### EXTREME WEATHER RATING

High-tech aluminum 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>.



### 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.

### THE IDEAL SOLUTION FOR:



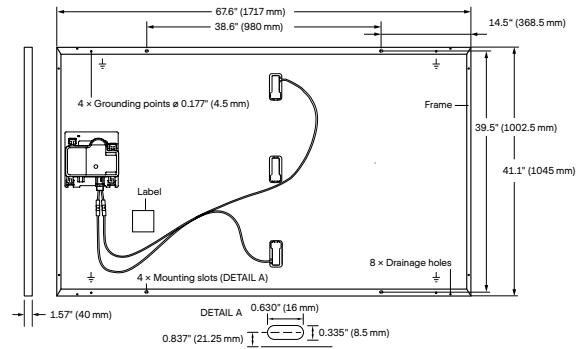
Rooftop arrays on residential buildings

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

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

## MECHANICAL SPECIFICATIONS

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 anodized aluminum
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 × 32-60 × 15-18 mm), Protection class IP67, with bypass diodes
Cable	4 mm <sup>2</sup> Solar cable; (+) ≥ 45.3 in (1150 mm), (-) ≥ 33.5 in (850 mm)
Connector	Stäubli MC4; IP68



## AC OUTPUT ELECTRICAL CHARACTERISTICS

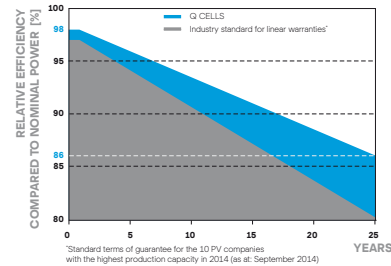
IQ7PLUS-72-ACM-US OR IQ7PLUS-72-E-ACM-US				
Peak Output Power	[VA]	295	AC Short Circuit Fault Current over 3 Cycles	5.8 Arms
Max. Continuous Output Power	[VA]	290	Max. Units per 20 A (L-L) Branch Circuit	13
Nominal (L-L) Voltage / Range	[V]	240/211~264	Overvoltage Class AC Port	III
Max. Continuous Output Current	[A]	1.21	AC Port Backfeed Current	18mA
Nominal Frequency	[Hz]	60	Power Factor Setting	1
Extended Frequency Range	[Hz]	47 - 68	Power Factor (adjustable)	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 +5 W / -0 W)									
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

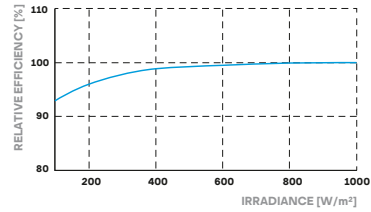
### Q CELLS PERFORMANCE WARRANTY



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 <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 DC 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> ]	75 (3600 Pa) / 55 (2660 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> ]	113 (5400 Pa) / 84 (4000 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. 107.1-01, Rapid Shutdown Compliant per NEC-2014 & 2017 & C22.1-2015



**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.