powered by Q.ANTUM DUO Z

DRAFT

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

Q.ANTUM DUO SOLAR MODULE WITH INTEGRATED MICROINVERTER

ASSEMBLED IN THE USA

25 YR Warranty Product & Performance

Q CELLS Yield Security

EUPD RESEARCH TOP BRAND PV MODULES EUROPE 2021

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[1], 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[2].

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

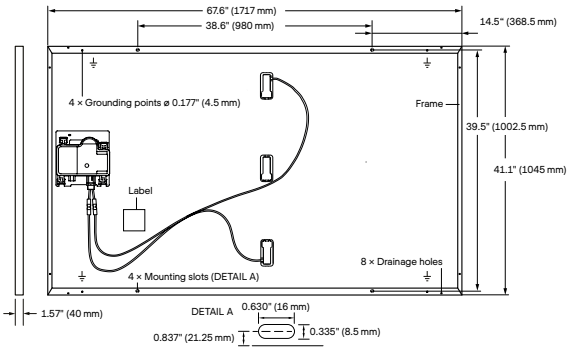
[1] APT test conditions according to IEC/TS 62804-1:2015, method A (–1500 V, 96 h)
[2] See data sheet on rear for further information

Engineered in Germany

Q CELLS

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 mm² Solar cable; (+) ≥ 45.3 in (1150 mm), (–) ≥ 33.5 in (850 mm)
Connector	Stäubli MC4; IP68



AC OUTPUT ELECTRICAL CHARACTERISTICS

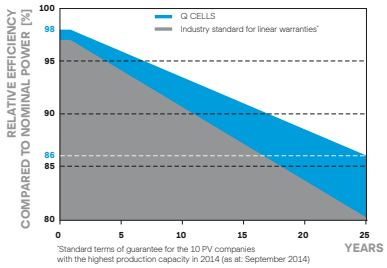
IQ7PLUS-72-ACM-US OR IQ7PLUS-72-E-ACM-US				
Peak Output Power	[VA]	295	AC Short Circuit Fault Current over 3 Cycles	5.8 Arms
Max. Continuous Output Power	[VA]	290	Max. Units per 20 A (L-L) Branch Circuit	13
Nominal (L-L) Voltage / Range	[V]	240 / 211 ~ 264	Overvoltage Class AC Port	III
Max. Continuous Output Current	[A]	1.21	AC Port Backfeed Current	18 mA
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[1] (POWER TOLERANCE +5 W / –0 W)									
Min. Power at MPP[1]	P_{MPP}	[W]	360	365	Min. Current at MPP	I_{MPP}	[A]	10.49	10.56
Min. Short Circuit Current[1]	I_{SC}	[A]	11.04	11.07	Min. Voltage at MPP	V_{MPP}	[V]	34.31	34.58
Min. Open Circuit Voltage[1]	V_{OC}	[V]	41.18	41.21	Min. Efficiency[1]	η	[%]	≥ 20.1	≥ 20.3

[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

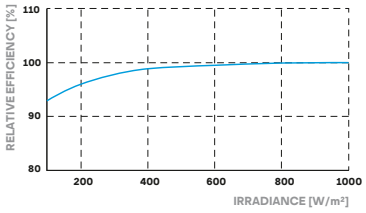
Q CELLS PERFORMANCE WARRANTY



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/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	Nominal Module Operating Temperature	NMOT	[°F]	109 ± 5.4 (43 ± 3 °C)

PROPERTIES FOR DC 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	TYPE 2
Max. Design Load, Push / Pull[3]	[lbs / ft²]	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[3]	[lbs / ft²]	113 (5400 Pa) / 84 (4000 Pa)		

[3] 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

CE

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.