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 19.5%.

INNOVATIVE ALL-WEATHER TECHNOLOGY
Optimal yields, whatever the weather with excellent low-light and temperature behavior.

ENDURING HIGH PERFORMANCE

EXTREME WEATHER RATING
High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).

A RELIABLE INVESTMENT

STATE OF THE ART MODULE TECHNOLOGY
Q.ANTUM DUO 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.

APT test conditions according to IEC/TS 62804-1:2015, method B (-1500 V, 168 h)
See data sheet on rear for further information

THE IDEAL SOLUTION FOR:
Rooftop arrays on residential buildings

Engineered in Germany
MECHANICAL SPECIFICATIONS

Format 68.5 x 40.6 x 1.57 in (including frame)
(1740 x 1030 x 40 mm)

Weight 47.2 lbs (21.4 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 x 20 monocrystalline Q.ANTUM solar half cells

Junction Box 2.09-3.98 x 1.26-2.36 x 0.59-0.71 in (53-101 x 32-60 x 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 340 345 340 345

MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC (POWER TOLERANCE +5 W / – 0 W)


Min. Short Circuit Current1 Isc [A] 10.52 10.58 Min. Voltage at MPP Vmp [V] 33.94 34.25

Min. Open Circuit Voltage2 Voc [V] 40.66 40.92 Min. Efficiency3 η [%] ≥ 19.0 ≥ 19.3

1 Measurement tolerances Pmp ± 3 %, Isc, Voc ± 5 % at STC: 1000 W/m², 25±2°C, AM1.5 according to IEC 60904-3

Q CELLS PERFORMANCE WARRANTY

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 Isc α [%/K] +0.04 Temperature Coefficient of Voc β [%/K] –0.27

Temperature Coefficient of Pmp γ [%/K] –0.36 Nominal Module Operating Temperature NMOT [°F] 109 ± 5.4 (43 ± 3 °C)

PROPERTIES FOR DC SYSTEM DESIGN

Maximum System Voltage Vsys [V] 1000 PV Module Classification Class II

Maximum Series Fuse Rating [A DC] 20 Fire Rating based on ANSI / UL 1703 TYPE 2

Max. Design Load, Push / Pull1 [lbs / ft²] 75 (3800 Pa)/55 (2867 Pa) Permitted Module Temperature on Continuous Duty –40 °F up to +185 °F

Max. Test Load, Push / Pull1 [lbs / ft²] 113 (5400 Pa)/84 (4000 Pa)

1 See Installation Manual

QUALIFICATIONS AND CERTIFICATES

| | Number of Pallets per Trailer (24 t) 28 |
| | Number of Pallets per 40’ HC-Container (26 t) 26 |
| | Pallet Dimensions (L x W x H) 70.1 x 42.5 x 47.6 in (1780 x 1080 x 1208 mm) |
| | Pallet Weight 1310 lbs (594 kg) |

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.

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