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.

THE IDEAL SOLUTION FOR:
Rooftop arrays on residential buildings

1 APT test conditions according to IEC/TS 62804-1:2015, method B (−1500 V, 168 h)
2 See data sheet on rear for further information
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 4mm² Solar cable; (+) ≥ 45.3 in (1150 mm), (−) ≥ 33.5 in (850 mm)
Connector Stäubli MC4; IP68

AC OUTPUT ELECTRICAL CHARACTERISTICS

IG7PLUS-72-ACM-US OR IG7PLUS-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 340 345 340 345
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC (POWER TOLERANCE +5 W / −0 W)
Min. Power at MPP1 PmPP [W] 340 345 Min. Current at MPP ImPP [A] 10.02 10.07
Min. Short Circuit Current1 Isc [A] 10.52 10.58 Min. Voltage at MPP VmPP [V] 33.94 34.25
Min. Open Circuit Voltage1 Voc [V] 40.66 40.92 Min. Efficiency6 η [%] ≥ 19.0 ≥ 19.3
Nominal Frequency [Hz] 60
Extended Frequency Range [Hz] 47 - 68 Power Factor (adjustable) 0.85 leading ... 0.85 lagging

Q CELLS PERFORMANCE WARRANTY

PERFORMANCE AT LOW IRRADIANCE

TEMPERATURE COEFFICIENTS

Temperature Coefficient of Voc α [%/K] +0.04 Temperature Coefficient of VmPP β [%/K] −0.27
Temperature Coefficient of Isc γ [%/K] −0.36 Nominal Module Operating Temperature NMOT [°F] 109±5.4 (43±3 °C)

PROPERTIES FOR DC SYSTEM DESIGN

Maximum System Voltage VmPP [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 / Pull2 [lbs/ft²] 75 (3800 Pa)/55 (2667 Pa) Permitted Module Temperature on Continuous Duty −40°F up to +185°F
Max. Test Load, Push / Pull2 [lbs/ft²] 113 (5400 Pa)/84 (4000Pa) Permitted Module Temperature on Short Circuit −40°C up to +85°C

QUALIFICATIONS AND CERTIFICATES

Number of Modules per pallet 26 Number of Pallets per container (26 t) 26
Number of Pallets per trailer (24 t) 26 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.

Hanwha Q CELLS America Inc.
400 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA | TEL +1 949 748 59 96 | EMAIL inquiry@us.q-cells.com | WEB www.q-cells.us

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