Q.PEAK DUO BLK-G6+ / AC
340
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 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.

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

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

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
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC (POWER TOLERANCE +5 W / -0 W)
Min. Power at MPP1  P_{MPP}  [W]  340  Min. Current at MPP  I_{MPP}  [A]  10.02
Min. Short Circuit Current1  I_{SC}  [A]  10.52  Min. Voltage at MPP  V_{MPP}  [V]  33.94
Min. Open Circuit Voltage1  V_{OC}  [V]  40.66  Min. Efficiency1  \eta  [%]  ≥ 19.0

Q CELLS PERFORMANCE WARRANTY

PERFORMANCE AT LOW IRRADIANCE

At least 98% of nominal power during first year. Thereafter max. 0.54% degradation per year. At least 93.1%  
of nominal power up to 10 years. At least 85% 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 organization of your respective country.

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I_{SC}  \alpha  [% /K]  +0.04  Temperature Coefficient of V_{OC}  \beta  [% /K]  –0.27
Temperature Coefficient of P_{MPP}  \gamma  [% /K]  –0.36  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 1703  TYPE 2
Max. Design Load, Push / Pull2  [lbs / ft²]  75 (3800 Pa) / 55 (2667 Pa)  Permitted Module Temperature  
Continuous Duty  –40°F up to +185°F  
(–40°C up to +85°C)
Max. Test Load, Push / Pull2  [lbs / ft²]  113 (5400 Pa) / 84 (4000 Pa)

QUALIFICATIONS AND CERTIFICATES

| Solar module: UL 1703, CE-compliant,  | Number of Modules per pallet  | 26 |
| U.S. Patent No. 9,583,215 (solar cells),  | Number of Pallets per trailer (24 t)  | 26 |
| Enphase micro inverter: UL 1274-5A, LA,  | Number of Pallets per 40’ HC-Container (26 t)  | 26 |
| 60109-1, UL1741/IEEE1647, FCC: Part 15 Class B,  | Pallet Dimensions (L x W x H)  | 70.1 x 42.5 x 47.6 in (1780 x 1080 x 1208 mm) |
| ICE-0033 Class B, CAN/CSA-C22.2 No. 107.1-01, Rapid Shutdown Compliant per NEC-2014 &  | Pallet Weight  | 1345 lbs (610 kg) |
| 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.

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