Q.PEAK DUO L-G6.2
415-435
ENDURING HIGH PERFORMANCE

Q.ANTUM TECHNOLOGY: LOW LEVELISED COST OF ELECTRICITY
Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 20.5%.

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

ENDURING HIGH PERFORMANCE
Long-term yield security with Anti LID Technology, Anti PID Technology1, Hot-Spot Protect and Traceable Quality Tra.Q™.

EXTREME WEATHER RATING
High-tech aluminium alloy frame, certified for high snow (5400 Pa) and wind loads (2400 Pa).

A RELIABLE INVESTMENT
Inclusive 12-year product warranty and 25-year linear performance warranty2.

STATE OF THE ART MODULE TECHNOLOGY
Q.ANTUM DUO combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology.

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.

THE IDEAL SOLUTION FOR:
Rooftop arrays on commercial/industrial buildings
Ground-mounted solar power plants

Engineered in Germany
MECHANICAL SPECIFICATION

Format 81.9 in × 40.6 in × 1.38 in (including frame) (2080 mm × 1030 mm × 35 mm)
Weight 55.1 lbs (25 kg)
Front Cover 0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover Composite film
Frame Anodized aluminum
Cell 6 × 24 monocrystalline Q.ANTUM solar half cells
 Junction Box 2.09-3.98 in × 1.26-2.36 in × 0.59-0.71 in (53-101 mm × 32-60 mm × 15-18 mm)
Cable 4 mm² Solar cable; (+) ≥ 55.1 in (1400 mm), (−) ≥ 55.1 in (1400 mm)
Connector Stäubli MC4-Evo2, Hanwha Q CELLS HQC4, Amphenol UTX, Renhe 05-8, JMTTHY JM601A, Tongling Cable01S-F; IP68 or Friends PV2e, IP67

ELECTRICAL CHARACTERISTICS

POWER CLASS 415 420 425 430 435
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC1 (POWER TOLERANCE +5 W / -0 W)
Power at MPP1 Pp [W] 415 420 425 430 435
Short Circuit Current1 Isc [A] 10.74 10.79 10.83 10.88 10.92
Open Circuit Voltage1 V oc [V] 48.63 48.88 49.13 49.38 49.62
Current at MPP1 Imp [A] 10.23 10.27 10.32 10.36 10.41
Voltage at MPP1 Vmp [V] 40.58 40.89 41.20 41.50 41.81
Efficiency1 η [%] ≥ 19.4 ≥ 19.6 ≥ 19.8 ≥ 20.1 ≥ 20.3

MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT2
Power at MPP2 Pp [W] 310.6 314.4 318.1 321.8 325.6
Short Circuit Current2 Isc [A] 8.65 8.69 8.73 8.76 8.80
Open Circuit Voltage2 Voc [V] 45.86 46.09 46.33 46.56 46.80
Current at MPP2 Imp [A] 8.05 8.09 8.12 8.16 8.19
Voltage at MPP2 Vmp [V] 38.59 38.88 39.17 39.46 39.75
1 Measurement tolerances Ppmax ± 5 %, Isc ± 5 % at STC: 1000 W/m², 25 ± 2 °C, AM 1.5 According to IEC 60904-3 - 2080 W/m², NMOT, spectrum AM 1.5
2 Q CELLS PERFORMANCE WARRANTY

At least 96 % 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 organisation of your respective country.

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 SYSTEM DESIGN

Maximum System Voltage Vm [V] 1500 (IEC) / 1500 (UL) PV module classification Class II
Maximum Series Fuse Rating [A DC] 20 Fire Rating based on ANSI / UL 61730 TYPE 1
Max. Design Load, Push / Pull3 [lbs / ft²] 75 (3600 Pa) / 33 (1800 Pa) Permitted Module Temperature on Continuous Duty -40 °F up to +185 °F (-40 °C up to +85 °C)
Max. Test Load, Push / Pull3 [lbs / ft²] 113 (5400 Pa) / 50 (2400 Pa)
3 See Installation Manual

QUALIFICATIONS AND CERTIFICATES


PACKAGING INFORMATION

Specifications subject to technical changes. © Q CELLS

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