

Q.PLUS DUO L-G5.3 360-375

EXCELLENT RELIABILITY
AND OUTSTANDING YIELDS



LOW ELECTRICITY GENERATION COSTS

Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 18.9%.



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 and Anti PID Technology¹, Hot-Spot Protect and Traceable Quality Tra.Q™.



EXTREME WEATHER RATING

High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (2400 Pa) regarding IEC.



A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 25-year linear performance guarantee².



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, 168h)

² See data sheet on rear for further information

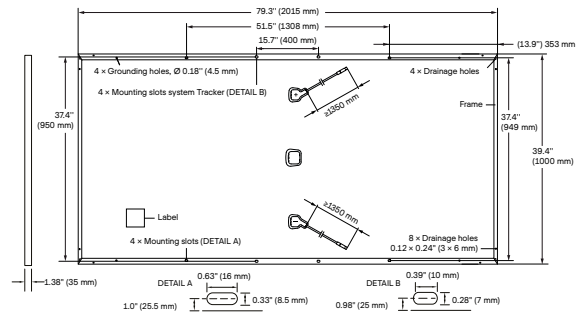
THE IDEAL SOLUTION FOR:



Ground-mounted
solar power plants

MECHANICAL SPECIFICATION

| | |
|--------------|---|
| Format | 79.3 × 39.4 × 1.38in (including frame) (2015 × 1000 × 35 mm) |
| Weight | 50.7lbs (23 kg) |
| Front Cover | 0.13in (3.2mm) thermally pre-stressed glass with anti-reflection technology |
| Back Cover | Composite film |
| Frame | Anodized aluminum |
| Cell | 6 × 24 multicrystalline Q.ANTUM solar half cells |
| Junction Box | 2.09-3.98 × 1.26-2.36 × 0.59-0.71in (53-101 × 32-60 × 15-18 mm), Protection class IP67, with bypass diodes |
| Cable | 4 mm ² Solar cable; (+) ≥53.1in (1350mm), (-) ≥53.1in (1350mm) |
| Connector | Stäubli MC4-Evo2, Amphenol UTX, Renhe O5-8, Tongling TL-Cable01S-F, IP68 or Friends PV2e; IP67 |

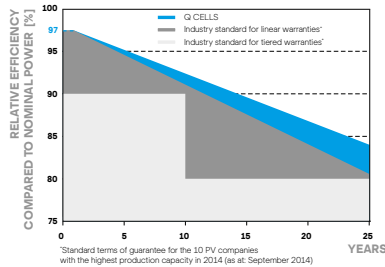


ELECTRICAL CHARACTERISTICS

| POWER CLASS | | 360 | 365 | 370 | 375 | |
|---|------------------------------------|---------------|-------|-------|-------|-------|
| MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5 W / -0 W) | | | | | | |
| Minimum | Power at MPP ¹ | P_{MPP} [W] | 360 | 365 | 370 | 375 |
| | Short Circuit Current ¹ | I_{SC} [A] | 9.87 | 9.92 | 9.96 | 10.01 |
| | Open Circuit Voltage ¹ | V_{OC} [V] | 46.80 | 47.03 | 47.26 | 47.49 |
| | Current at MPP | I_{MPP} [A] | 9.35 | 9.41 | 9.47 | 9.54 |
| | Voltage at MPP | V_{MPP} [V] | 38.52 | 38.79 | 39.05 | 39.32 |
| | Efficiency ¹ | η [%] | ≥17.9 | ≥18.1 | ≥18.4 | ≥18.6 |
| MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT ² | | | | | | |
| Minimum | Power at MPP | P_{MPP} [W] | 268.8 | 272.5 | 276.2 | 280.0 |
| | Short Circuit Current | I_{SC} [A] | 7.95 | 7.99 | 8.03 | 8.06 |
| | Open Circuit Voltage | V_{OC} [V] | 44.03 | 44.25 | 44.46 | 44.68 |
| | Current at MPP | I_{MPP} [A] | 7.35 | 7.40 | 7.46 | 7.51 |
| | Voltage at MPP | V_{MPP} [V] | 36.58 | 36.82 | 37.05 | 37.28 |

¹Measurement tolerances $P_{MPP} \pm 3\%$; I_{SC} ; $V_{OC} \pm 5\%$ at STC: 1000 W/m², 25 ± 2 °C, AM 1.5 G according to IEC 60904-3 • 2800 W/m², NMOT, spectrum AM 1.5 G

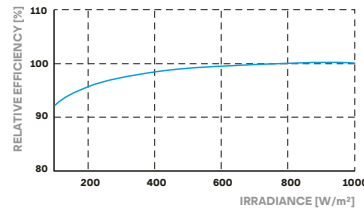
Q CELLS PERFORMANCE WARRANTY



At least 97% of nominal power during first year. Thereafter max. 0.54% degradation per year. At least 92.0% of nominal power up to 10 years. At least 84% 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] | -0.28 |
| Temperature Coefficient of P_{MPP} | γ [%/K] | -0.37 | Normal Module Operating Temperature | NMOT [°F] | 109 ± 5.4 (43 ± 3 °C) |

PROPERTIES FOR SYSTEM DESIGN

| | | | | |
|--|--------------------------|------------------------------|---|---|
| Maximum System Voltage V_{SYS} | [V] | 1500 (IEC)/1500 (UL) | Safety Class | II |
| Maximum Series Fuse Rating | [A DC] | 20 | Fire Rating | C (IEC) / TYPE 1 (UL) |
| Max. Design Load, Push / Pull ³ | [lbs / ft ²] | 75 (3600 Pa) / 33 (1600 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 / ft ²] | 113 (5400 Pa) / 50 (2400 Pa) | | |

³ See Installation Manual

QUALIFICATIONS AND CERTIFICATES

UL 1703, CE-compliant, IEC 61215:2016, IEC 61730:2016, Application Class II, U.S. Patent No. 9,893,215 (solar cells)



PACKAGING INFORMATION

| | |
|--|---|
| Number of Modules per Pallet | 29 |
| Number of Pallets per 53' Trailer | 26 |
| Number of Pallets per 40' HC-Container | 22 |
| Pallet Dimensions (L × W × H) | 81.9 × 45.3 × 46.7 in (2080 × 1150 × 1190 mm) |
| Pallet Weight | 1606 lbs (727 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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