

Q.PEAK DUO L-G5.2 380-395

Q.ANTUM SOLAR MODULE

The new high-performance module **Q.PEAK DUO L-G5.2** is the ideal solution for commercial and utility applications thanks to a combination of its innovative cell technology **Q.ANTUM** and cutting edge cell interconnection. This 1500V IEC/UL solar module with its 6 busbar cell design ensures superior yields with up to 395 Wp while having a very low LCOE.



LOW ELECTRICITY GENERATION COSTS

Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 19.9%.



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 Technology, 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).



A RELIABLE INVESTMENT

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



¹ APT test conditions according to IEC/TS 62804-1:2015, method B (-1500V, 168h)

² See data sheet on rear for further information.

THE IDEAL SOLUTION FOR:



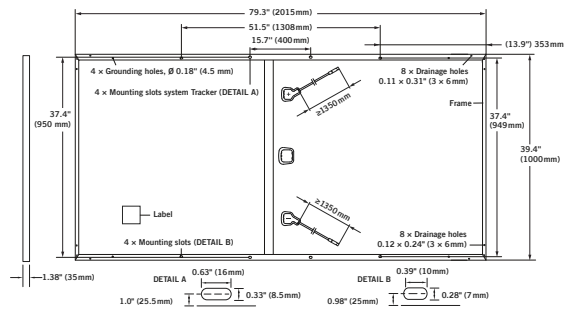
Rooftop arrays on commercial/industrial buildings



Ground-mounted solar power plants

MECHANICAL SPECIFICATION

| | |
|---------------------|--|
| Format | 79.3 in × 39.4 in × 1.38 in (including frame) (2015 mm × 1000 mm × 35 mm) |
| Weight | 51.8 lbs (23.5 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 | 2.76-3.35 in × 1.97-2.76 in × 0.51-0.83 in (70-85 mm × 50-70 mm × 13-21 mm), Protection class IP67, with bypass diodes |
| Cable | 4 mm ² Solar cable; (+) ≥ 53.1 in (1350 mm), (-) ≥ 53.1 in (1350 mm) |
| Connector | Multi-Contact MC4-EVO2, JMTHY PV-JM601A, IP68 or Renhe O5-6, IP67 |

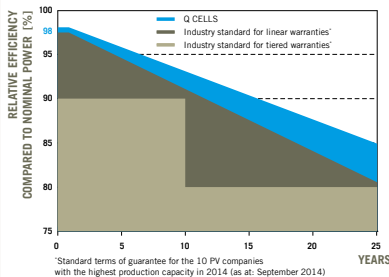


ELECTRICAL CHARACTERISTICS

| POWER CLASS | | 380 | 385 | 390 | 395 | |
|---|------------------------------------|---------------|--------|--------|--------|--------|
| MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5 W / -0 W) | | | | | | |
| Minimum | Power at MPP ¹ | P_{MPP} [W] | 380 | 385 | 390 | 395 |
| | Short Circuit Current ¹ | I_{SC} [A] | 10.05 | 10.10 | 10.14 | 10.19 |
| | Open Circuit Voltage ¹ | V_{OC} [V] | 47.95 | 48.21 | 48.48 | 48.74 |
| | Current at MPP | I_{MPP} [A] | 9.57 | 9.61 | 9.66 | 9.70 |
| | Voltage at MPP | V_{MPP} [V] | 39.71 | 40.05 | 40.38 | 40.71 |
| | Efficiency ¹ | η [%] | ≥ 18.9 | ≥ 19.1 | ≥ 19.4 | ≥ 19.6 |
| MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT ² | | | | | | |
| Minimum | Power at MPP | P_{MPP} [W] | 283.9 | 287.6 | 291.3 | 295.1 |
| | Short Circuit Current | I_{SC} [A] | 8.10 | 8.14 | 8.17 | 8.21 |
| | Open Circuit Voltage | V_{OC} [V] | 45.12 | 45.37 | 45.62 | 45.87 |
| | Current at MPP | I_{MPP} [A] | 7.53 | 7.57 | 7.60 | 7.64 |
| | Voltage at MPP | V_{MPP} [V] | 37.69 | 38.01 | 38.33 | 38.64 |

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

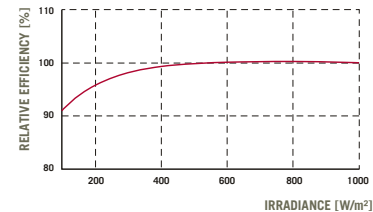
Q CELLS PERFORMANCE WARRANTY



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.

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 Operating Module 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 (UL) ² | [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 (UL) ² | [lbs/ft ²] | 113 (5400 Pa) / 50 (2400 Pa) | | ² see installation manual |

QUALIFICATIONS AND CERTIFICATES

UL 1703; CE-compliant;
IEC 61215:2016, IEC 61730:2016 application class A



PACKAGING INFORMATION

| | |
|---|--|
| Number of Modules per Pallet | 29 |
| Number of Pallets per 53' Trailer | 26 |
| Number of Pallets per 40' High Cube Container | 22 |
| Pallet Dimensions (L × W × H) | 81.9 in × 45.3 in × 46.7 in (2080 mm × 1150 mm × 1185 mm) |
| Pallet Weight | 1635 lbs (742 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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