powered by Q.ANTUM

# Q.PEAK L-G5
## 365-380
### ENDURING HIGH PERFORMANCE

EUPD RESEARCH TOP BRAND PV MODULES EUROPE 2019

Photon YIELD MEASUREMENT Q.PRO-G2 235 Best polycrystalline solar module 2014 Q CELLS 174 modules tested

Q CELLS YIELD SECURITY
- ANTI PID TECHNOLOGY (APT)
- HOT-SPOT PROTECT (HSP)
- TRACEABLE QUALITY (TRA.Q™)
- ANTI LID TECHNOLOGY (ALT)

**LOW LEVELISED COST OF ELECTRICITY**
Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 19.8 %.

**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 Technology, 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 warranty[1].

[1] See data sheet on rear for further information.

**THE IDEAL SOLUTION FOR:**

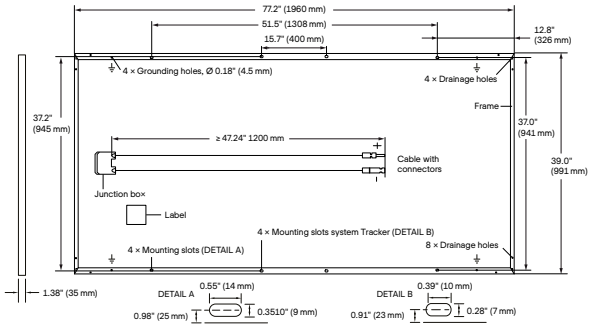
Ground-mounted solar power plants

Engineered in Germany

Q CELLS

## MECHANICAL SPECIFICATION

| | |
|---|---|
| Format | 77.2 in × 39.0 in × 1.38 in (including frame)<br>(1960 mm × 991 mm × 35 mm) |
| Weight | 49.6 lbs (22.5 kg) ±5% |
| 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 × 12 monocrystalline Q.ANTUM solar cells |
| Junction Box | 3.35-4.53 in × 2.36-3.15 in × 0.59-0.75 in<br>(85-115 mm × 60-80 mm × 15-20 mm), ≥IP67, with bypass diodes |
| Cable | 4 mm² Solar cable; (+) ≥47.2 in (1200 mm), (–) ≥47.2 in (1200 mm) |
| Connector | Stäubli MC4, Hanwha Q CELLS HQC4, Tongling TL-Cable01S, Amphenol UTX; IP68 |

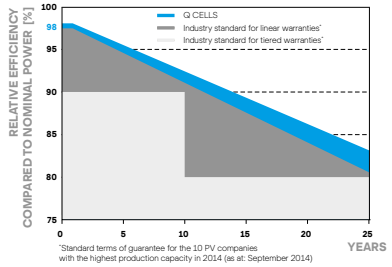



## ELECTRICAL CHARACTERISTICS

| POWER CLASS | | | | 365 | 370 | 375 | 380 |
|---|---|---|---|---|---|---|---|
| MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC[1] (POWER TOLERANCE +5 W / –0 W) | | | | | | | |
| Minimum | Power at MPP[1] | $P_{MPP}$ | [W] | 365 | 370 | 375 | 380 |
| | Short Circuit Current[1] | $I_{SC}$ | [A] | 9.75 | 9.81 | 9.86 | 9.92 |
| | Open Circuit Voltage[1] | $V_{OC}$ | [V] | 48.16 | 48.45 | 48.73 | 49.02 |
| | Current at MPP | $I_{MPP}$ | [A] | 9.27 | 9.35 | 9.42 | 9.50 |
| | Voltage at MPP | $V_{MPP}$ | [V] | 39.38 | 39.59 | 39.80 | 40.01 |
| | Efficiency[1] | η | [%] | ≥18.8 | ≥19.0 | ≥19.3 | ≥19.6 |
| MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT[2] | | | | | | | |
| Minimum | Power at MPP | $P_{MPP}$ | [W] | 272.3 | 276.1 | 279.8 | 283.5 |
| | Short Circuit Current | $I_{SC}$ | [A] | 7.85 | 7.90 | 7.95 | 7.99 |
| | Open Circuit Voltage | $V_{OC}$ | [V] | 45.32 | 45.59 | 45.87 | 46.14 |
| | Current at MPP | $I_{MPP}$ | [A] | 7.29 | 7.36 | 7.42 | 7.49 |
| | Voltage at MPP | $V_{MPP}$ | [V] | 37.34 | 37.52 | 37.70 | 37.87 |

[1]Measurement tolerances $P_{MPP}$ ±3%; $I_{SC}$; $V_{OC}$ ±5% at STC: 1000 W/m², 25±2 °C, AM 1.5 according to IEC 60904-3 • [2]800 W/m², NMOT, spectrum AM 1.5

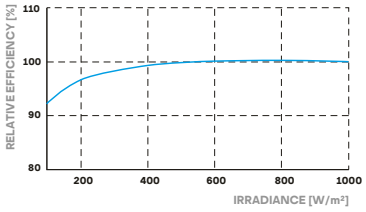
### Q CELLS PERFORMANCE WARRANTY




At least 98% of nominal power during first year. Thereafter max. 0.6% degradation per year. At least 92.6% of nominal power up to 10 years. At least 83.6% 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] | –0.39 | Normal Module Operating Temperature | NMOT | [°F] | 109±5.4 (43±3 °C) |

## PROPERTIES FOR SYSTEM DESIGN

| | | | | |
|---|---|---|---|---|
| Maximum System Voltage $V_{SYS}$ | [V] | 1000 (IEC) / 1000 (UL) | Safety Class | II |
| Maximum Series Fuse Rating | [A DC] | 20 | Fire Rating based on ANSI / UL 1703 | C / TYPE 2 |
| Max. Design Load, Push / Pull[3] | [lbs / ft²] | 75 (3600 Pa) / 33 (1600 Pa) | Permitted Module Temperature on Continuous Duty | –40 °F up to +185 °F<br>(–40 °C up to +85 °C) |
| Max. Test Load, Push / Pull[3] | [lbs / ft²] | 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

## PACKAGING INFORMATION

| | |
|---|---|
| Number of Modules per Pallet | 30 |
| Number of Pallets per 40' HC-Container | 22 |
| Pallet Dimensions (L × W × H) | 79.1 × 44.5 × 45.7 in (2010 × 1130 × 1160 mm) |
| Pallet Weight | 1601 lbs (726 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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