Q. PEAK DUO L-G5
380-400
ENDURING HIGH PERFORMANCE

LOW ELECTRICITY GENERATION COSTS
Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 20.1%.

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\(^1\), 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\(^2\).

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

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\(^1\) 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.
MECHANICAL SPECIFICATION

Format | 2015 mm × 1000 mm × 35 mm (including frame)
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Weight | 23 kg
Front Cover | 3.2 mm thermally pre-stressed glass with anti-reflection technology
Back Cover | Composite film
Frame | Anodised aluminium
Cell | 6 × 24 monocrystalline Q.ANTUM solar half cells
Junction box | 53-101 mm × 32-60 mm × 15-18 mm
Protection class IP67, with bypass diodes
Cable | 4 mm² Solar cable; (+) ≥ 1350 mm, (−) ≥ 1350 mm
Connector | Stäubli MC4, Hanwha Q CELLS HQC4, Amphenol UTX, Renesine 5A-6, Tongting TL-Cable015, JMT-HY, J601, IP68 or friends PV2e, IP67

ELECTRICAL CHARACTERISTICS

| POWER CLASS | 380 | 385 | 390 | 395 | 400 |
---|---|---|---|---|---|
| Minimum Power at MPP | 284.4 | 288.2 | 291.9 | 295.6 | 299.4 |
| Short Circuit Current | 8.10 | 8.14 | 8.17 | 8.21 | 8.25 |
| Open Circuit Voltage | 45.21 | 45.46 | 45.71 | 45.96 | 46.21 |
| Current at MPP | 7.53 | 7.57 | 7.60 | 7.64 | 7.67 |
| Voltage at MPP | 39.71 | 40.05 | 40.38 | 40.71 | 41.04 |
| Efficiency | ≥ 18.9 | ≥ 19.1 | ≥ 19.4 | ≥ 19.6 | ≥ 19.9 |

| MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT |
---|---|---|---|---|---|
| Power at MPP | 284.4 | 288.2 | 291.9 | 295.6 | 299.4 |
| Short Circuit Current | 8.10 | 8.14 | 8.17 | 8.21 | 8.25 |
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| Efficiency | ≥ 18.9 | ≥ 19.1 | ≥ 19.4 | ≥ 19.6 | ≥ 19.9 |

TEMPERATURE COEFFICIENTS

| Temperature Coefficient I_{SC} | α [% / K] | +0.04 |
| Temperature Coefficient V_{OC} | β [% / K] | −0.27 |
| Temperature Coefficient P_{MPP} | γ [% / K] | −0.36 |

Permitted Module Temperature on Continuous Duty -40°C - +85°C

PROPERTIES FOR SYSTEM DESIGN

- Maximum System Voltage | V_{SYS} | 1000 (IEC)/1000 (UL) |
- PV module classification | Class II |
- Maximum Reverse Current | I_{R} | 20 |
- Fire Rating based on ANSI/UL 1703 | C/TYPE 2 |
- Max. Design Load, Push / Pull | P_{E} | 3600/1600 |
- Permitted Module Temperature | 2074 × 1130 × 1170 mm |
- Max. Test Load, Push / Pull | P_{E} | 5400/2400 |
- Pallet Weight | 746 kg |

QUALIFICATIONS AND CERTIFICATES

Performance at low irradiance

Typical module performance under low irradiance conditions in comparison to STC conditions (25 °C, 1000 W/m²)

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 15 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.

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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