

Q.PEAK DUO BLK ML-G10.a 385-405

ENDURING HIGH PERFORMANCE







BREAKING THE 20% EFFICIENCY BARRIER

Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 20.9%.



THE MOST THOROUGH TESTING PROGRAMME IN THE INDUSTRY

Q CELLS is the first solar module manufacturer to pass the most comprehensive quality programme in the industry: The new "Quality Controlled PV" of the independent certification institute TÜV Rheinland.



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 (4000 Pa).



A RELIABLE INVESTMENT

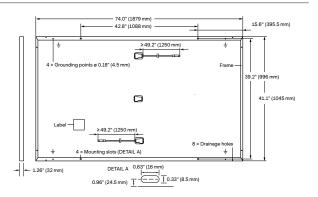
Inclusive 12-year product warranty and 25-year linear performance warranty².

- ¹ APT test conditions according to IEC/TS 62804-1:2015, method A (-1500 V, 96 h)
- ² See data sheet on rear for further information.







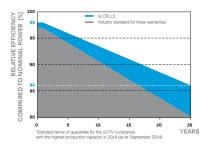


ELECTRICAL CHARACTERISTICS

| PO | WER CLASS | | | 385 | 390 | 395 | 400 | 405 |
|-------|------------------------------------|------------------|--------------|-----------------|---------|-------|-------|-------|
| MIN | IIMUM PERFORMANCE AT STANDAR | D TEST CONDITIO | NS, STC1 (PO | WER TOLERANCE + | 5W/-0W) | | | |
| | Power at MPP¹ | P _{MPP} | [W] | 385 | 390 | 395 | 400 | 405 |
| _ | Short Circuit Current ¹ | I _{sc} | [A] | 11.04 | 11.07 | 11.10 | 11.14 | 11.17 |
| un u | Open Circuit Voltage ¹ | V _{oc} | [V] | 45.19 | 45.23 | 45.27 | 45.30 | 45.34 |
| Minir | Current at MPP | I _{MPP} | [A] | 10.59 | 10.65 | 10.71 | 10.77 | 10.83 |
| 2 | Voltage at MPP | V_{MPP} | [V] | 36.36 | 36.62 | 36.88 | 37.13 | 37.39 |
| | Efficiency ¹ | η | [%] | ≥19.6 | ≥19.9 | ≥20.1 | ≥20.4 | ≥20.6 |
| MIN | IIMUM PERFORMANCE AT NORMAL | OPERATING COND | DITIONS, NM | OT ² | | | | |
| | Power at MPP | P _{MPP} | [W] | 288.8 | 292.6 | 296.3 | 300.1 | 303.8 |
| Ξ | Short Circuit Current | I _{sc} | [A] | 8.90 | 8.92 | 8.95 | 8.97 | 9.00 |
| ij | Open Circuit Voltage | V _{oc} | [V] | 42.62 | 42.65 | 42.69 | 42.72 | 42.76 |
| Ē | Current at MPP | I _{MPP} | [A] | 8.35 | 8.41 | 8.46 | 8.51 | 8.57 |
| | Voltage at MPP | V _{MPP} | [V] | 34.59 | 34.81 | 35.03 | 35.25 | 35.46 |

¹Measurement 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 • ²800 W/m², NMOT, spectrum AM 1.5

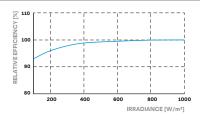
Q CELLS PERFORMANCE WARRANTY



At least 98% of nominal power during first year. Thereafter max. 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At least 86% 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 Voc | β | [%/K] | -0.27 |
| Temperature Coefficient of P _{MPP} | γ | [%/K] | -0.34 | Nominal Module Operating Temperature | NMOT | [°F] | 109±5.4 (43±3°C) |

PROPERTIES FOR SYSTEM DESIGN

| | Maximum System Voltage $V_{\scriptsize SYS}$ | [V] | 1000 (IEC)/1000 (UL) | PV module classification | Class II |
|---|----------------------------------------------|------------------------|------------------------------|------------------------------------|---------------------|
| | Maximum Series Fuse Rating | [A DC] | 20 | Fire Rating based on ANSI/UL 61730 | TYPE 2 |
| - | Max. Design Load, Push/Pull ³ | [lbs/ft ²] | 75 (3600 Pa)/55 (2660 Pa) | Permitted Module Temperature | -40°F up to +185°F |
| | Max. Test Load, Push / Pull ³ | [lbs/ft ²] | 113 (5400 Pa) / 84 (4000 Pa) | on Continuous Duty | (-40°C up to +85°C) |

QUALIFICATIONS AND CERTIFICATES

PACKAGING INFORMATION

UL 61730, CE-compliant Quality Controlled PV - TÜV Rheinland, IEC 61215:2016, IEC 61730:2016, U.S. Patent No. 9,893,215 (solar cells). QCPV Certification ongoing.

3 See Installation Manual











43.3 in



48.0 in

1220 mm



751 ka



pallets



24

pallets



modules

32

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.

Hanwha Q CELLS America Inc.