

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

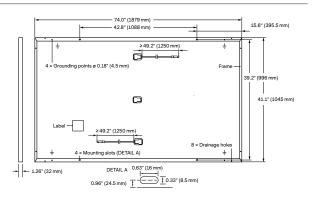
Inclusive 12-year product warranty and 25-year linear performance warranty².

- 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.







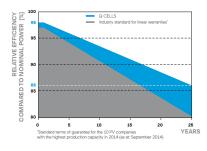


ELECTRICAL CHARACTERISTICS

PO	WER CLASS			385	390	395	400	405
MIN	IIMUM PERFORMANCE AT STANDAF	RD 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
unu	Open Circuit Voltage ¹	V _{oc}	[V]	45.19	45.23	45.27	45.30	45.34
Minim	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 CONI	DITIONS, NM	OT ²				
	Power at MPP	P _{MPP}	[W]	288.8	292.6	296.3	300.1	303.8
E	Short Circuit Current	I _{sc}	[A]	8.90	8.92	8.95	8.97	9.00
nim	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

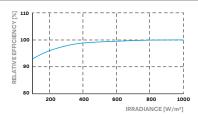
Q CELLS PERFORMANCE WARRANTY



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

1100 mm

76.4 in

1940mm



48.0 in

1220 mm



1656 lbs

751 ka



24

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.