

Q.PEAK DUO BLK ML-G10+ 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 (5400Pa) and wind loads (4000Pa).



A RELIABLE INVESTMENT

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



² See data sheet on rear for further information.

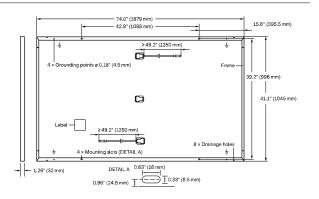
6 BUSBAR CELL TECHNOLOGY

12 BUSBAR CELL TECHNOLOGY

THE IDEAL SOLUTION FOR:





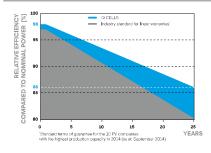


ELECTRICAL CHARACTERISTICS

PO	WER CLASS			385	390	395	400	405
MIN	IIMUM PERFORMANCE AT STANDAF	RD TEST CONDITIC	NS, STC1 (PO	WER TOLERANCE +	5W/-0W)			
mnu	Power at MPP ¹	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
	Open Circuit Voltage ¹	V _{oc}	[V]	45.19	45.23	45.27	45.30	45.34
Minir	Current at MPP	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				
Minimum	Power at MPP	P _{MPP}	[W]	288.8	292.6	296.3	300.1	303.8
	Short Circuit Current	I _{sc}	[A]	8.90	8.92	8.95	8.97	9.00
	Open Circuit Voltage	V _{oc}	[V]	42.62	42.65	42.69	42.72	42.76
	Current at MPP	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_{CC} ±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

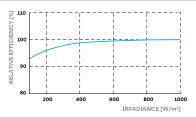
Q CELLS PERFORMANCE WARRANTY



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 $^{\circ}\text{C}, 1000\,\text{W/m}^2)$

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 _{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)	

³See Installation Manual

QUALIFICATIONS AND CERTIFICATES

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.











43.3 in

1100 mm

76.4 in

1940 mm



48.0 in

1220 mm

PACKAGING INFORMATION



751kg



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.