

Q.TRON ML-G3 SERIES



700-725 Wp | 132 Cells
23.3% Maximum Module Efficiency

MODEL Q.TRON ML-G3.3/BFG



High performance Qcells N-type solar cells

Q.ANTUM NEO Technology with optimized module layout boosts module efficiency up to 23.3%.



Bifacial energy yield gain of up to 20%

Q.ANTUM NEO cells make efficient use of light shining on the module rear-side for radically improved LCOE.



A reliable investment

Double glass module design enables extended lifetime with 12-year product warranty and improved 30-year performance warranty¹.



Enduring high performance

Long-term yield security with Anti LeTID and Anti PID Technology², Hot-Spot Protect.



Frame for versatile mounting options

High-tech aluminum alloy frame protects from damage, enables use of a wide range of mounting structures and is certified regarding IEC for high snow (5400 Pa) and wind loads (2600 Pa).



Innovative all-weather technology

Optimal yields, whatever the weather with excellent low-light and temperature behavior.

¹ See data sheet on rear for further information.

² APT test conditions according to IEC/TS 62804-1:2015 method B (-1500 V, 168 h) including post treatment according to IEC 61215-1-1 Ed. 2.0 (CD)

The ideal solution for:



Ground mounted solar panels



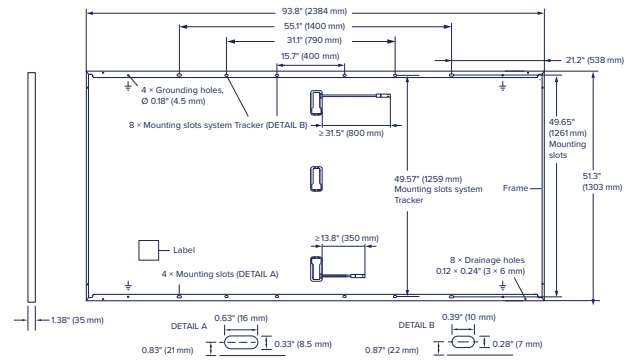
Solar power plants with tracker



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Mechanical Specification

Format	93.8 in × 51.3 in × 1.38 in (including frame) (2384 mm × 1303 mm × 35 mm)
Weight	84.2lbs (38.2 kg)
Front Cover	0.08 in (2.0 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	0.08 in (2.0 mm) semi-tempered glass
Frame	Anodised aluminium
Cell	6 × 22 monocrystalline Q.ANTUM NEO solar half cells
Junction box	2.09-3.98 × 1.26-2.36 × 0.59-0.71 in (53-101 mm × 32-60 mm × 15-18 mm), Protection class IP68, with bypass diodes
Cable	4 mm ² Solar cable; (+) ≥ 31.5 in (800 mm), (-) ≥ 13.8 in (350 mm)
Connector	Stäubli MC4 - IP68

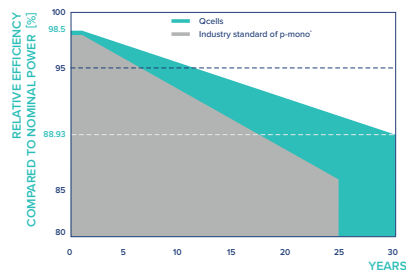


Electrical Characteristics

Power Class				700	705	710	715	720	725
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5 W/-0 W)									
Minimum	Power at MPP ¹	P _{MPP}	[W]	700	705	710	715	720	725
	Short Circuit Current ¹	I _{SC}	[A]	18.42	18.45	18.48	18.51	18.53	18.56
	Open Circuit Voltage ¹	V _{OC}	[V]	48.10	48.17	48.24	48.31	48.39	48.46
	Current at MPP	I _{MPP}	[A]	17.17	17.22	17.27	17.33	17.38	17.44
	Voltage at MPP	V _{MPP}	[V]	40.78	40.94	41.10	41.26	41.42	41.58
	Efficiency ¹	η	[%]	≥ 22.5	≥ 22.7	≥ 22.9	≥ 23.0	≥ 23.2	≥ 23.3
MINIMUM PERFORMANCE AT BIFACIAL NAMEPLATE IRRADIANCE, BNPI ¹									
Minimum	Power at MPP ¹	P _{MPP}	[W]	770.4	775.9	781.4	786.9	792.4	797.9
	Short Circuit Current ¹	I _{SC}	[A]	20.29	20.32	20.35	20.38	20.41	20.44
	Open Circuit Voltage ¹	V _{OC}	[V]	48.28	48.35	48.42	48.50	48.57	48.64
	Current at MPP	I _{MPP}	[A]	18.90	18.96	19.02	19.08	19.14	19.20
	Voltage at MPP	V _{MPP}	[V]	40.77	40.93	41.09	41.25	41.41	41.57

¹ Measurement tolerances: P_{MPP} ± 3%; I_{SC}, V_{OC} ± 5% at STC/BNPI; front 1000 W/m²; BNPI: rear 135 W/m², ϕI_{SC}, P_{MPP} = 0.75 ± 0.05, ϕV_{OC} = 0.99 ± 0.03; 25 ± 2 °C, AM 1.5 according to IEC 60904-3. Data given are rated (nominal) values.

Qcells Performance Warranty

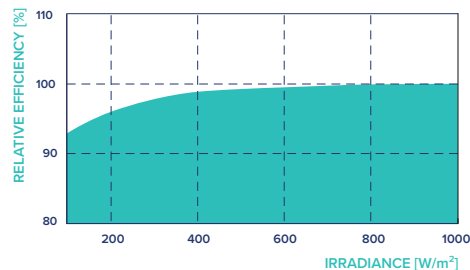


*Standard terms of guarantee for the 5 PV companies with the highest production capacity in 2021 (February 2021)

At least 98.5% of nominal power during first year. Thereafter max. 0.33% degradation per year. At least 95.53% of nominal power up to 10 years. At least 88.93% of nominal power up to 30 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Qcells 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 V _{OC}			
Temperature Coefficient of I _{SC}	α	[%/K]	+0.04	Temperature Coefficient of V _{OC}	β	[%/K]	-0.24
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.29				

Properties for System Design

Maximum System Voltage	V _{sys} [V]	1500 (UL)/1000 (IEC)	PV module classification	Class II
Maximum Series Fuse Rating	I _R [A DC]	35	Fire Rating based on ANSI/UL 61730	C/TYPE 29
Max. Push Load ³ , Test/Design	[lbs/ft ²]	113 (5400 Pa)/75 (3600 Pa)	Permitted Module Temperature on Continuous Duty	-40 °F up to +158 °F (-40 °C up to +70 °C)
Max. Pull Load ³ , Test/Design	[lbs/ft ²]	54 (2600 Pa)/36 (1730 Pa)		

³ See Installation Manual for instructions

Qualifications and Certificates

UL61730-1 & UL61730-2,
CE-compliant,
IEC 61215:2021,
IEC 61730:2023,



Find product recycling details at QR code above

Qcells pursues minimizing paper output in consideration of the global environment.

Note: Installation instructions must be followed. Contact our technical service for further information on approved installation of this product.

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