Q.TRON-G1+ SERIES



380-400 Wp | 120 Cells 22.3 % Maximum Module Efficiency

MODEL Q.TRON-G1+





High performance Qcells N-type solar cells

Q.ANTUM NEO Technology with zero gap cell layout boosts module efficiency up to 22.3 %.



A reliable investment

Inclusive 25-year product warranty and 25-year linear performance warranty¹.



Enduring high performance

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



Extreme weather rating

High-tech aluminium alloy frame, certified for high snow (8100 Pa) and wind loads (4000 Pa).



Innovative all-weather technology

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



The most thorough testing programme in the industry

Qcells 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.

¹ See data sheet on rear for further information.

² APT test conditions according to IEC/TS 62804-1:2015, method A (-1500 V, 96 h)



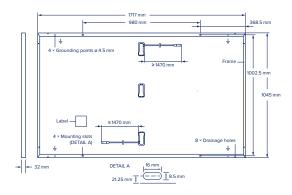




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Mechanical Specification

Format	1717 mm × 1045 mm × 32 mm (including frame)
Weight	19.9 kg
Front Cover	3.2 mm thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodised aluminium
Cell	6 × 20 monocrystalline Q.ANTUM NEO 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; (+) ≥1470 mm, (-) ≥1470 mm
Connector	Stäubli MC4; IP68



Electrical Characteristics

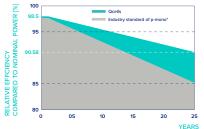
POWER CLASS			380	385	390	395	400
MINIMUM PERFORMANCE AT STANDARD TEST	CONDITIONS, ST	C1 (POWER T	OLERANCE +5 W/-0	W)			
Power at MPP ¹	P _{MPP}	[W]	380	385	390	395	400
Short Circuit Current ¹	I _{sc}	[A]	11.22	11.25	11.28	11.32	11.35
Open Circuit Voltage ¹	V _{oc}	[V]	42.58	42.61	42.65	42.68	42.71
Current at MPP	IMPP	[A]	10.65	10.71	10.77	10.83	10.89
Voltage at MPP	V _{MPP}	[V]	35.69	35.96	36.22	36.48	36.73
Efficiency ¹	η	[%]	≥21.2	≥21.5	≥21.7	≥22.0	≥22.3

MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT²

Minimum	Power at MPP	P _{MPP}	[W]	287.4	291.1	294.9	298.7	302.5
	Short Circuit Current	I _{sc}	[A]	9.04	9.07	9.09	9.12	9.14
	Open Circuit Voltage	V _{oc}	[V]	40.40	40.43	40.46	40.49	40.53
	Current at MPP	I _{MPP}	[A]	8.37	8.43	8.48	8.53	8.59
	Voltage at MPP	V_{MPP}	[V]	34.32	34.55	34.78	35.00	35.22

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

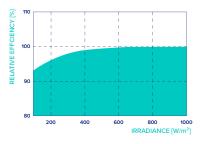
Qcells PERFORMANCE WARRANTY



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 90.58% of nominal power up to 25 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).

highest production capacity in 2021 (February 2021)

*Standard terms of guarantee for the 5 PV companies with the

TEMPERATORE COEFFICIENTS							
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]	-0.30	Nominal Module Operating Temperature	NMOT	[°C]	43±3

Properties for System Design

Maximum System Voltage	V _{sys}	[V]	1000	PV module classification	Class II
Maximum Reverse Current	I _R	[A]	20	Fire Rating based on ANSI/UL 61730	C/TYPE 2
Max. Design Load, Push/Pull		[Pa]	5400/2660	Permitted Module Temperature	-40°C - +85°C
Max. Test Load, Push/Pull		[Pa]	8100/4000	on Continuous Duty	

Qualifications and Certificates

Quality Controlled PV -TÜV Rheinland; IEC 61215:2016; IEC 61730:2016. This data sheet complies with DIN EN 50380.





Qcells

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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