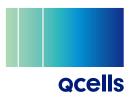
Q.PEAK DUO SERIES



390-410 Wp | 108 Cells 21.4 % Maximum Module Efficiency

MODEL Q.PEAK DUO M-G11





Breaking the 21% efficiency barrier

Q.ANTUM DUO Z technology with zero gap cell layout boosts module efficiency up to 21.4 %



Enduring high performance

Long-term yield security with Anti LeTID Technology, Anti PID Technology¹ and Hot-Spot Protect



Extreme weather rating

High-tech aluminium alloy frame, certified for high snow (5400 Pa) and wind loads (3600 Pa).



Innovative all-weather technology

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



A reliable investment

Inclusive 12-year product warranty and 25-year linear performance warranty 2 .



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 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.



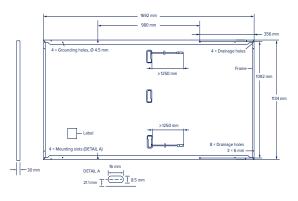
The ideal solution for:

Rooftop arrays on residential buildings

Q.PEAK DUO SERIES

Mechanical Specification

Format	1692 mm × 1134 mm × 30 mm (including frame)
Weight	21.2 kg
Front Cover	3.2 mm thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodised aluminium
Cell	6 × 18 monocrystalline Q.ANTUM solar half cells
Junction box	53-101 mm × 32-60 mm × 15-18 mm Protection class IP67, with bypass diodes
Cable	4 mm^2 Solar cable; (+) \geq 1250 mm, (-) \geq 1250 mm
Connector	Stäubli MC4, Hanwha Q CELLS HQC4; IP68



Electrical Characteristics

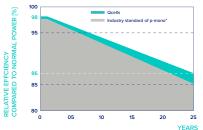
PC	WER CLASS			390	395	400	405	410
MIN	NIMUM PERFORMANCE AT STANDARD TE	ST CONDITIONS, ST	C ¹ (POWER TOLERA	NCE +5 W/-0 W)				
	Power at MPP ¹	P _{MPP}	[W]	390	395	400	405	410
_	Short Circuit Current ¹	I _{sc}	[A]	13.46	13.50	13.54	13.57	13.61
unu	Open Circuit Voltage ¹	V _{oc}	[V]	37.10	37.13	37.16	37.18	37.21
linir	Current at MPP	IMPP	[A]	12.76	12.83	12.90	12.97	13.04
2	Voltage at MPP	V _{MPP}	[V]	30.56	30.78	31.00	31.22	31.43
	Efficiency ¹	η	[%]	≥20.3	≥20.6	≥20.8	≥21.1	≥21.4

MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT²

Minimum	Power at MPP	P _{MPP}	[W]	292.6	296.3	300.1	303.8	307.6
	Short Circuit Current	I _{sc}	[A]	10.85	10.88	10.91	10.94	10.97
	Open Circuit Voltage	V _{oc}	[V]	34.99	35.01	35.04	35.07	35.09
	Current at MPP	I _{MPP}	[A]	10.03	10.10	10.16	10.22	10.28
	Voltage at MPP	V	[V]	29.16	29.35	29.54	29.72	29.91

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

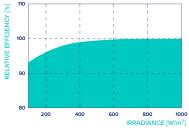
Qcells PERFORMANCE WARRANTY



At least 98% 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 Qcells sales organisation of your respective country.

PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions ($25 \,^\circ$ C, $1000 \,$ W/m²).

TEMPERATURE COEFFICIENTS

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

highest production capacity in 2021 (February 2021)

Temperature Coefficient of I _{sc}	α	[%/K]	+0.04	Temperature Coefficient of V _{oc}	β	[%/K]	-0.27
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.34	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]	25	Fire Rating based on ANSI/UL 61730	C/TYPE 2
Max. Design Load, Push/Pull		[Pa]	3600/2400	Permitted Module Temperature	-40 °C - +85 °C
Max. Test Load, Push/Pull		[Pa]	5400/3600	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 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. Hanwha Q CELLS GmbH Sonnenallee 17-21, 06766 Bitterfeld-Wolfen, Germany I TEL +49 (0)3494 66 99-23404 I FAX +49 (0)3494 66 99-23000 I EMAIL sales@q-cells.com I WEB www.qcells.com

QCells