

Q.PEAK DUO BLK ML-G9 / AC 375-380

Q.ANTUM DUO Z SOLAR MODULE WITH INTEGRATED MICROINVERTER

ENPHASE ENERGIZED











BREAKING THE 20% EFFICIENCY BARRIER

Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 20.3%.



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, 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.



STATE OF THE ART MODULE TECHNOLOGY

Q.ANTUM DUO Technology and the integrated high-powered Enphase IQ 7+ Microinverter achieving maximum system efficiency.



RELIABLE ENERGY MONITORING

Seamless management with the intelligent Enphase Enlighten™ monitoring system.

 1 APT test conditions according to IEC /TS 62804-1:2015, method A (–1500 V, 96h) 2 See data sheet on rear for further information.



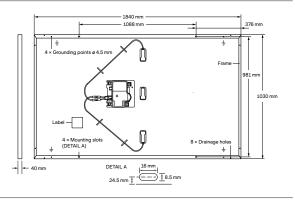


Rooftop arrays on residential buildings



MECHANICAL SPECIFICATION

Format	1840 mm × 1030 mm × 40 mm (including frame)
Weight	20.6 kg
Front Cover	2.8mm thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodised aluminium
Cell	6 × 22 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 mm² Solar cable; (+) ≥1200 mm, (−) ≥1200 mm
Connector	Stäubli MC4, Hanwha Q CELLS HQC4; IP68



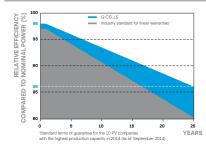
AC OUTPUT ELECTRICAL CHARACTERISTICS

IQ7PLUS-72-ACM-INT				
Peak Output Power	[VA]	295	DC port backfeed under single fault	5.8 Arms
Max. Continuous Output Power	[VA]	290	Max. Units per 20 A (L-L) Branch Circuit	13
Nominal (L-L) Voltage / Range	[V]	230/184~276	Overvoltage Class AC Port	
Max. Continuous Output Current	[A]	1.26	AC Port Backfeed Current	0 mA
Nominal Frequency	[Hz]	50	Power Factor Setting	1
Extended Frequency Range	[Hz]	45 - 55	Power Factor (adjustable)	0.85 leading 0.85 lagging

DC ELECTRICAL CHARACTERISTICS

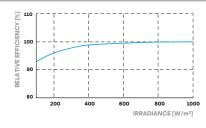
POWER CLASS			375	380				375	380
MINIMUM PERFORMANCE AT S	TANDARD 1	FEST CO	NDITIONS, S	STC ¹ (POW	ER TOLERANCE +5 W / -0 W)				
Min. Power at MPP ¹	P _{MPP}	[W]	375	380	Min. Current at MPP	IMPP	[A]	9.98	10.04
Min. Short Circuit Current ¹	I _{SC}	[A]	10.47	10.50	Min. Voltage at MPP	V _{MPP}	[V]	37.57	37.85
Min. Open Circuit Voltage ¹	V _{oc}	[V]	45.01	45.04	Min. Efficiency ¹	η	[%]	≥19.8	≥20.1

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 $^{\circ}C,$ 1000 W/m²).

PACKAGING INFORMATION

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I _{sc}	α	[%/K]	+0.04	Temperature Coefficient of Voc	β	[%/K]	-0.27
Temperature Coefficient of P _{MPP}	Ŷ	[%/K]	-0.35	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]	3600/2660	Permitted Module Temperature	-40°C - +85°C				
Max. Test Load, Push/Pull		[Pa]	5400/4000	on Continuous Duty					

QUALIFICATIONS AND CERTIFICATES

Solar module: IEC 61215:2016; IEC 61730:2016 certified by TÜV Rheinland.					<u>ک</u>	24t	40 HC	
Enphase micro inverter: AS 4777.2, RCM, IEC/EN 61000-6-3, IEC/EN 62109-1, IEC/EN 62109-2	Vertical packaging		1130mm	1200mm	577.6 kg	28 pallets	24 pallets	26 modules

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 GmbH

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