

# Q.PEAK DUO BLK ML-G9

ENDURING HIGH PERFORMANCE











#### **BREAKING THE 20% EFFICIENCY BARRIER**

Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 20.6%.



# INNOVATIVE ALL-WEATHER TECHNOLOGY

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



# **ENDURING HIGH PERFORMANCE**

Long-term yield security with Anti LID Technology, Anti PID Technology $^{\rm l}$ , Hot-Spot Protect and Traceable Quality Tra.Q $^{\rm TM}$ .



# **EXTREME WEATHER RATING**

High-tech aluminium alloy frame, certified for high snow (6000 Pa) and wind loads (4000 Pa).



#### A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 25-year linear performance warranty<sup>2</sup>.



#### STATE OF THE ART MODULE TECHNOLOGY

Q.ANTUM DUO combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology.

### THE IDEAL SOLUTION FOR:

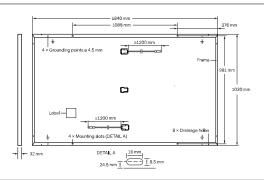


Rooftop arrays on residential buildings



<sup>&</sup>lt;sup>1</sup> APT test conditions according to IEC/TS 62804-1:2015, method B (-1500 V, 168h)

<sup>&</sup>lt;sup>2</sup> See data sheet on rear for further information.



#### **ELECTRICAL CHARACTERISTICS**

PO	VER CLASS			365	370	375	380	385
MIN	IIMUM PERFORMANCE AT STANDARD	TEST CONDITIO	NS, STC1 (F	OWER TOLERANCE	+5W/-0W)			
Minimum	Power at MPP¹	P <sub>MPP</sub>	[W]	365	370	375	380	385
	Short Circuit Current <sup>1</sup>	I <sub>sc</sub>	[A]	10.40	10.44	10.47	10.50	10.53
	Open Circuit Voltage <sup>1</sup>	V <sub>oc</sub>	[V]	44.93	44.97	45.01	45.04	45.08
	Current at MPP	I <sub>MPP</sub>	[A]	9.87	9.92	9.98	10.04	10.10
_	Voltage at MPP	$V_{MPP}$	[V]	36.99	37.28	37.57	37.85	38.13
	Efficiency <sup>1</sup>	η	[%]	≥19.3	≥19.5	≥19.8	≥20.1	≥20.3
MIN	IIMUM PERFORMANCE AT NORMAL OF	PERATING COND	DITIONS, N	MOT <sup>2</sup>				
Minimum	Power at MPP	P <sub>MPP</sub>	[W]	273.3	277.1	280.8	284.6	288.3
	Short Circuit Current	I <sub>sc</sub>	[A]	8.38	8.41	8.43	8.46	8.48
	Open Circuit Voltage	V <sub>oc</sub>	[V]	42.37	42.41	42.44	42.48	42.51
	Current at MPP	I <sub>MPP</sub>	[A]	7.76	7.81	7.86	7.91	7.96
	Voltage at MPP	V <sub>MPP</sub>	[V]	35.23	35.48	35.72	35.96	36.20

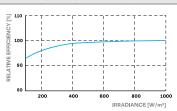
\*Measurement tolerances P<sub>MPP</sub> ±3 %; I<sub>SC</sub>; V<sub>OC</sub> ±5% at STC: 1000 W/m², 25 ±2 °C, AM 1.5 according to IEC 60904-3 • 2800 W/m², NMOT, spectrum AM 1.5

#### 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 toler ances. 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  $^{\circ}C,1000\,W/m^{2}).$ 

TEMPERATURE COEFFICIENTS							
Temperature Coefficient of I <sub>SC</sub>	α	[%/K]	+0.04	Temperature Coefficient of Voc	β	[%/K]	<b>-</b> 0.27
Temperature Coefficient of P <sub>MPP</sub>	γ	[%/K]	-0.35	Nominal Module Operating Temperature	NMOT	[°C]	43±3

#### PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage	$V_{\rm SYS}$	[V]	1000	PV module classification	Class II
Maximum Reverse Current	I <sub>R</sub>	[A]	20	Fire Rating based on ANSI/UL 61730	C/TYPE 2
Max. Design Load, Push/Pull		[Pa]	4000/2660	Permitted Module Temperature	-40°C - +85°C
Max. Test Load, Push / Pull		[Pa]	6000/4000	on Continuous Duty	

#### **QUALIFICATIONS AND CERTIFICATES**

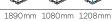
#### PACKAGING INFORMATION

IEC 61730:2016. This data sheet complies with DIN EN 50380.





Horizontal
packaging













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

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