

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

Q.ANTUM DUO Z SOLAR MODULE WITH INTEGRATED MICROINVERTER











#### **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 Technology<sup>1</sup>, Hot-Spot Protect, Traceable Quality Tra.Q<sup>TM</sup>.



#### **EXTREME WEATHER RATING**

High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).



# A RELIABLE INVESTMENT

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



# 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.

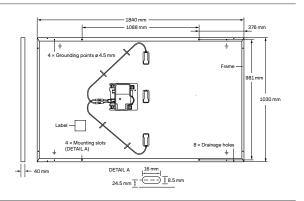
# THE IDEAL SOLUTION FOR:





 $<sup>^{\</sup>mbox{\tiny 1}}$  APT test conditions according to IEC/TS 62804-1:2015, method A (–1500 V, 96 h)

 $<sup>^{\</sup>rm 2}$  See data sheet on rear for further information.



#### **AC OUTPUT ELECTRICAL CHARACTERISTICS**

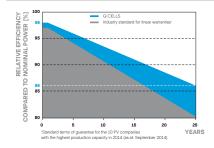
IQ7PLUS-72-ACM-INT				
Peak Output Power	[VA]	295	DC port backfeed under single fault	5.8 Arms
Max. Continuous Output Power	[VA]	290	Max. Units per 20 A (L-L) Branch Circuit	13
Nominal (L-L) Voltage / Range	[V]	230/184~276	Overvoltage Class AC Port	III
Max. Continuous Output Current	[A]	1.26	AC Port Backfeed Current	OmA
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 STANDARD TEST CONDITIONS, STC <sup>1</sup> (POWER TOLERANCE +5 W / -0 W)									
Min. Power at MPP <sup>1</sup>	P <sub>MPP</sub>	[W]	375	380	Min. Current at MPP	I <sub>MPP</sub>	[A]	9.98	10.04
Min. Short Circuit Current <sup>1</sup>	I <sub>sc</sub>	[A]	10.47	10.50	Min. Voltage at MPP	$V_{MPP}$	[V]	37.57	37.85
Min. Open Circuit Voltage <sup>1</sup>	V <sub>oc</sub>	[V]	45.01	45.04	Min. Efficiency <sup>1</sup>	η	[%]	≥19.8	≥20.1

 $^1\text{Measurement tolerances}$  P  $_{\text{MPP}}$   $\pm3\%;$  I  $_{\text{SC}};$  V  $_{\text{OC}}$   $\pm5\%$  at STC: 1000 W/m², 25  $\pm2\,^{\circ}\text{C},$  AM 1.5 according to IEC 60904-3

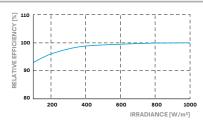
#### Q CELLS PERFORMANCE WARRANTY



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 °C, 1000 W/m²).

TEMPERATURE COEFFICIENTS							
Temperature Coefficient of I <sub>SC</sub>	α	[%/K]	+0.04	Temperature Coefficient of Voc	β	[%/K]	-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	$V_{\text{SYS}}$	[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]	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. Enphase micro inverter: AS 4777.2. RCM. IEC/EN 61000-6-3.

IEC/EN 62109-1, IEC/EN 62109-2

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L	C

1891mm	1130 mm	1200mm







577.6 kg

**PACKAGING INFORMATION** 



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

#### Hanwha Q CELLS GmbH

Sonnenallee 17-21, 06766 Bitterfeld-Wolfen, Germany I TEL +49 (0)3494 66 99-23444 | FAX +49 (0)3494 66 99-23000 | EMAIL sales@q-cells.com | WEB www.q-cells.com

Vertical

packaging

