

# Q.PEAK DUO L-G5.2 380-395

## Q.ANTUM SOLAR MODULE

The new high-performance module **Q.PEAK DUO L-G5.2** is the ideal solution for commercial and utility applications thanks to a combination of its innovative cell technology **Q.ANTUM** and cutting edge cell interconnection. This 1500 V IEC/UL solar module with its 6 busbar cell design ensures superior yields with up to 395 Wp while having a very low LCOE.



### LOW ELECTRICITY GENERATION COSTS

Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 19.9%.



### 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 and Traceable Quality Tra.Q™.



### EXTREME WEATHER RATING

High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (2400 Pa).



### A RELIABLE INVESTMENT

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



### THE IDEAL SOLUTION FOR:



Rooftop arrays on commercial/industrial buildings



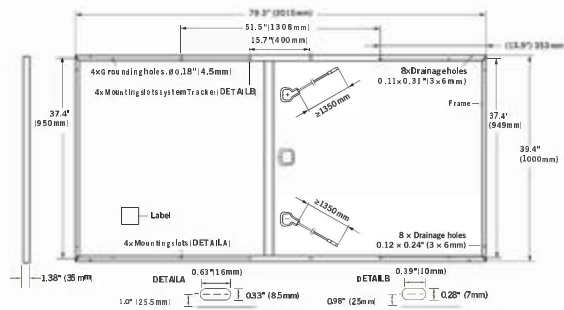
Ground-mounted solar power plants

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

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

## MECHANICAL SPECIFICATION

<b>Format</b>	79.3 in × 39.4 in × 1.38 in (including frame) (2015mm × 1000mm × 35mm)
<b>Weight</b>	51.8lbs (23.5kg)
<b>Front Cover</b>	0.13 in (3.2mm) thermally pre-stressed glass with anti-reflection technology
<b>Back Cover</b>	Composite film
<b>Frame</b>	Anodized aluminum
<b>Cell</b>	6 × 24 monocrystalline Q.ANTUM solar half-cells
<b>Junction box</b>	2.76-3.35 in × 1.97-2.76 in × 0.51-0.83 in (70-85 mm × 50-70 mm × 13-21 mm), Protection class IP67, with bypass diodes
<b>Cable</b>	4mm <sup>2</sup> Solar cable,(+) ≥53.1 in (1350mm), (-) ≥53.1 in (1350mm)
<b>Connector</b>	Multi-Contact MC4-EVO2, JMTHY PV-JM601A, IP68 or Renhe O5-8, IP67

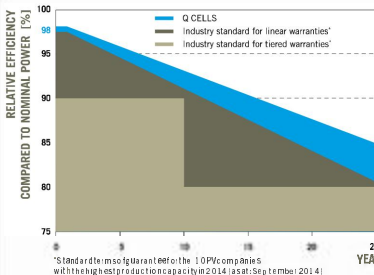


## ELECTRICAL CHARACTERISTICS

POWER CLASS		380	385	390	395	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC <sup>1</sup> (POWER TOLERANCE +5W / -0W)						
Minimum	Power at MPP <sup>1</sup>	$P_{MPP}$ [W]	380	385	390	395
	Short Circuit Current <sup>1</sup>	$I_{SC}$ [A]	10.05	10.10	10.14	10.19
	Open Circuit Voltage <sup>1</sup>	$V_{OC}$ [V]	47.95	48.21	48.48	48.74
	Current at MPP	$I_{MPP}$ [A]	9.57	9.61	9.66	9.70
	Voltage at MPP	$V_{MPP}$ [V]	39.71	40.05	40.38	40.71
	Efficiency <sup>1</sup>	$\eta$ [%]	≥ 18.9	≥ 19.1	≥ 19.4	≥ 19.6
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT <sup>2</sup>						
Minimum	Power at MPP	$P_{MPP}$ [W]	283.9	287.6	291.3	295.1
	Short Circuit Current	$I_{SC}$ [A]	8.10	8.14	8.17	8.21
	Open Circuit Voltage	$V_{OC}$ [V]	45.12	45.37	45.62	45.87
	Current at MPP	$I_{MPP}$ [A]	7.53	7.57	7.60	7.64
	Voltage at MPP	$V_{MPP}$ [V]	37.69	38.01	38.33	38.64

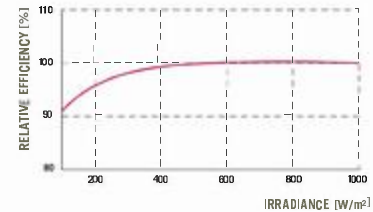
<sup>1</sup>Measurement tolerances  $P_{MPP} \pm 3\%$ ;  $I_{SC}$ ,  $V_{OC} \pm 5\%$  at STC: 1000W/m<sup>2</sup>, 25±2°C, AM 1.5G according to IEC 60904-3 · 800 W/m<sup>2</sup>. NMOT, spectrum AM 1.5G

## Q CELLS PERFORMANCE WARRANTY



At least 98% of nominal power during first year. Thereafter max. 0.54% degradation per year.  
 At least 93.1% of nominal power up to 10 years.  
 At least 85% 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 organization of your respective country.

## PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25°C, 1000W/m<sup>2</sup>).

## TEMPERATURE COEFFICIENTS

Temperature Coefficient of $I_{SC}$	$\alpha$	[%/K]	+0.04	Temperature Coefficient of $V_{OC}$	$\beta$	[%/K]	-0.28
Temperature Coefficient of $P_{MPP}$	$\gamma$	[%/K]	-0.37	Normal Operating Module Temperature	NMOT	[°F]	109 ± 5.4 (43 ± 3°C)

## PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage $V_{SYS}$	[V]	1500 (IEC) / 1500 (UL)	Safety Class	II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating	C (IEC) / TYPE 1 (UL)
Max. Design Load, Push / Pull (UL) <sup>2</sup>	[lbs/ft <sup>2</sup> ]	75 (3600Pa) / 33 (1600Pa)	Permitted module temperature on continuous duty	-40°F up to +185°F (-40°C up to +85°C)
Max. Test Load, Push / Pull (UL) <sup>2</sup>	[lbs/ft <sup>2</sup> ]	113 (5400 Pa) / 50 (2400 Pa)	<sup>2</sup> see installation manual	

## QUALIFICATIONS AND CERTIFICATES

UL 1703; CE-compliant;  
 IEC 61215:2016, IEC 61730:2016 application class A



## PACKAGING INFORMATION

Number of Modules per Pallet	29
Number of Pallets per 53' Trailer	26
Number of Pallets per 40' High Cube Container	22
Pallet Dimensions (L × W × H)	81.9 in × 45.3 in × 46.7 in (2080mm × 1150mm × 1185mm)
Pallet Weight	1635lbs (742kg)

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 America Inc.

300 Spectrum Center Drive, Suite 1250, Irvine, CA 92618, USA | TEL +1 949 748 59 96 | EMAIL inquiry@us.q-cells.com | WEB www.q-cells.us