

The new high-performance module Q.PEAK-G4.1/SC is the ideal solution for all applications thanks to its innovative cell technology Q.ANTUM Ultra and a black Zep Compatible™ frame design for improved aesthetics, easy installation and increased safety. The world-record cell design was developed to achieve the best performance under real conditions — even with low radiation intensity and on clear, hot summer days.



LOW ELECTRICITY GENERATION COSTS

Higher yield per surface area and lower BOS costs thanks to higher power classes and an efficiency rate of up to 18.6%.



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-PID Technology¹, Hot-Spot-Protect and Traceable Quality $Tra.Q^{TM}$.



A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 25-year linear performance guarantee².











APT test conditions: Cells at -1500V against grounded, with conductive metal foil covered module surface, 25°C, 168h

See data sheet on rear for further information.

THE IDEAL SOLUTION FOR:

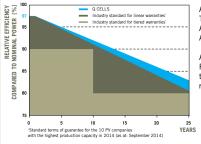




EL	ECTRICAL CHARACTERIS	TICS				
P0\	WER CLASS			295	300	305
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5W / -OW)						
	Power at MPP ²	P_{MPP}	[W]	295	300	305
	Short Circuit Current*	I _{sc}	[A]	9.70	9.77	9.84
Minimum	Open Circuit Voltage*	V_{oc}	[V]	39.48	39.76	40.05
Mini	Current at MPP*	I _{MPP}	[A]	9.17	9.26	9.35
	Voltage at MPP*	V_{MPP}	[V]	32.19	32.41	32.62
	Efficiency ²	η	[%]	≥17.7	≥18.0	≥18.3
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOC3						
Minimum	Power at MPP ²	P_{MPP}	[W]	218.1	221.8	225.5
	Short Circuit Current*	I _{sc}	[A]	7.82	7.88	7.94
	Open Circuit Voltage*	V_{oc}	[V]	36.92	37.19	37.46
	Current at MPP*	I _{MPP}	[A]	7.20	7.27	7.35
	Voltage at MPP*	V_{MPP}	[V]	30.30	30.49	30.67
1100	0 W/m ² , 25 °C, spectrum AM 1.5G	² Measurement tolerances STC ±3	%; NOC ±5 %	³ 800 W/m ² , NOCT, spectrum AM 1.5 G	* typical values, actual values may differ	

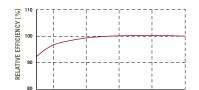
PERFORMANCE AT LOW IRRADIANCE

Q CELLS PERFORMANCE WARRANTY



At least 97 % of nominal power during first year. Thereafter max. 0.6 % degradation per year. At least 92% of nominal power up to 10 years. At least 83 % 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.



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

800

1000 IRRADIANCE [W/m²]

	TEMPER	ATURE	COEFFIC	IENTS
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Temperature Coefficient of I _{sc}	α	[%/K]	+0.04	Temperature Coefficient of V_{oc}	β	[%/K]	-0.28
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.39	Normal Operating Cell Temperature	NOCT	[° F]	113 ±5.4 (45 ±3°C)

PROPERTIES FOR SYSTEM D	ESIGN			
Maximum System Voltage V _{SYS}	[V]	1000 (IEC) / 1000 (UL)	Safety Class	II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating	C (IEC) / TYPE 1 (UL)
Design load, push (UL) ²	[lbs/ft²]	75 (3600 Pa)	Permitted module temperature on continuous duty	-40°F up to +185°F (-40°C up to +85°C)
Design load, pull (UL) ²	[lbs/ft²]	55.6 (2666 Pa)	² see installation manual	

QUALIFICATIONS AND CERTIFICATES	PACKAGING INFORMATION	
UL 1703; CE-compliant; IEC 61215 (Ed.2); IEC 61730 (Ed.1) application class A	Number of Modules per Pallet	26
TEC 01213 (Eu.2); TEC 01730 (Eu.1) application class A	Number of Pallets per 53' Container	32
	Number of Pallets per 40' Container	26
C C CONTINUE US COMPRES	Pallet Dimensions ($L \times W \times H$)	$68.7 \text{in} \times 45.3 \text{in} \times 46.1 \text{in}$ (1745 mm × 1150 mm × 1170 mm)
(EUT274)	Pallet Weight	125/Llbs (569 kg)

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.