Q.PEAK BLK-G3 265-275

MONOCRYSTALLINE SOLAR MODULE

With its top performances and completely black design, the new Q.PEAK BLK-G3 is the aesthetic model athlete. The third module generation from Q CELLS has been optimised across the board: improved output yield, higher operating reliability and durability, quicker installation and more intelligent design – Made in Europe.

INNOVATIVE ALL-WEATHER TECHNOLOGY

- Maximum yields with excellent low-light and temperature behaviour.
- Increased cell efficiency due to fullsquare monocrystalline cells.

ENDURING HIGH PERFORMANCE

- Long-term Yield Security due to Anti PID Technology¹, Hot-Spot Protect, and Traceable Quality Tra.Q[™].
- Long-term stability due to VDE Quality Tested – the strictest test program.

SAFE ELECTRONICS

- Protection against short circuits and thermally induced power losses due to breathable junction box and welded cables.
- Increased flexibility due to MC4-intermateable connectors.

PROFIT-INCREASING GLASS TECHNOLOGY

• Reduction of light reflection by 50%, plus long-term corrosion resistance due to high-quality »Sol-Gel roller coating« processing.

LIGHTWEIGHT QUALITY FRAME

 Stability at wind loads of up to 5400 Pa with a module weight of just 19 kg due to slim frame design with high-tech alloy.

MAXIMUM COST REDUCTIONS

• Up to 31% lower logistics costs due to higher module capacity per box.

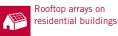
EXTENDED WARRANTIES

• Investment security due to 12-year product warranty and 25-year linear performance warranty².





THE IDEAL SOLUTION FOR:



¹ APT test conditions: Cells at -1000V against grounded, with conductive metal foil covered module surface, 25 °C, 168 h

² See data sheet on rear for further information.



MECHANICAL SPECIFICATION

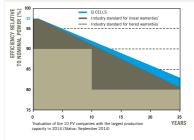
Format	65.7 in $ imes$ 39.4 in $ imes$ 1.38 in (including frame)	65.7" (1670 mm)
romat	(1670 mm × 1000 mm × 35 mm)	
Weight	41.89 lb (19.0 kg)	
Front Cover	0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology	8 x Drainage holes 4 x mountin
Back Cover	Composite film	Cable with
Frame	Black anodized aluminum	Junction box
Cell	6×10 monocrystalline solar cells	
Junction box	4.33 in $\times 4.53$ in $\times 0.9$ in (110 mm $\times 115$ mm $\times 23$ mm), Protection class IP67, with bypass diodes	6 × groundi g 0.177*(4
Cable	4 mm ² Solar cable; (+) \ge 45.67 in (1160 mm), (-) \ge 45.67 in (1160 mm)	→ 1.38° (35 mm) DETAIL A 0.79° (20.3 mm) 1 0.53° (16 mm) 0.79° (20.3 mm) 1 0.51° (8 mm)
Connector	TYCO PV4, IP68	

FIECTRICAL CHARACTERISTICS

ELECTRICAL CHARACTERISTICS					
PERFORMANCE AT STANDARD TEST CONDITIO	ONS (STC: 1000	W/m², 25 °C,	AM 1.5 G SPECTRUM) ¹		
NOMINAL POWER (+5W/-0W)		[W]	265	270	275
Average Power	P _{MPP}	[W]	267.5	272.5	277.5
Short Circuit Current	I _{sc}	[A]	9.08	9.14	9.21
Open Circuit Voltage	U _{oc}	[V]	38.22	38.51	38.80
Current at P _{MPP}	I _{MPP}	[A]	8.60	8.67	8.74
Voltage at P _{MPP}	U _{MPP}	[V]	31.10	31.42	31.73
Efficiency (Nominal Power)	η	[%]	≥15.9	≥16.2	≥16.5
PERFORMANCE AT NORMAL OPERATING CELL	TEMPERATURE	(NOCT: 800 W	V/m ² , 45 \pm 3 °C. AM 1.5 G SPECTR	JM) ²	
NOMINAL POWER		[W]	265	270	275
Average Power	P _{MPP}	[W]	197.1	200.8	204.5
Short Circuit Current	I _{sc}	[A]	7.32	7.37	7.43
Open Circuit Voltage	U _{oc}	[V]	35.58	35.86	36.13
Current at P _{MPP}	I _{MPP}	[A]	6.76	6.82	6.88
Voltage at P _{MPP}	U _{MPP}	[V]	29.16	29.45	29.74

 1 Measurement tolerances STC: ±3% (P_{_{mpp}}); ±10% (I_{_{sc}}, V_{_{oc}}, I_{_{mpp}}, V_{_{mpp}}) 2 Measurement tolerances NOCT: ±5 % (P_{_{mpp}}); ±10 % (I $_{_{sc}}$, V $_{_{oc}}$, I $_{_{mpp}}$, V $_{_{mpp}}$

Q CELLS PERFORMANCE WARRANTY

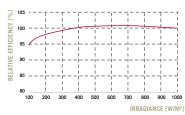


At least 97 % of nominal power during first year. Thereafter max. 0.6 % degradation per year. At least 92 % of nominal power after

10 years. At least 83 % of nominal power after 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



The typical change in module efficiency at an irradiance of 200 W/m² in relation to 1000 W/m² (both at 25 $^\circ\text{C}$ and AM 1.5G spectrum) is -2 % (relative).

5.91* (150

Temperature Coefficient of I _{sc}	α	[%/	K] +0.04	Temperature Coefficient of V_{oc} β		[%/K]	-0.30
Temperature Coefficient of P _{MPP}	γ	[%/	K] -0.42	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 / TYPE 1
Max Load (UL) ²	[lbs/ft	²]	75 (3600 Pa)	Permitted module temperature on continuous duty			-40°F up to +185°F (-40°C up to +85°C)
Load Rating (UL) ²	[lbs/ft	²]	75 (3600 Pa)	² see installation manual			
QUALIFICATIONS AND CERTI	FICATES			PACKAGING INFORMATION			
UL 1703; VDE Quality Tested; CE-compliant; IEC 61215 (Ed.2); IEC 61730 (Ed.1) application class A			Number of Modules per Pallet			29	
			Number of Pallets per 53' Container	r		32	
			Number of Pallets per 40' Container	r		26	
				Pallet Dimensions ($\rm L \times W \times H$)			68.5 in × 44.5 in × 46.0 in (1740 × 1130 × 1170 mm)
	(20+1+1)			Pallet Weight			1323 lb (600 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.

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