

The new Q.PRO BFR-G4 is the result of the continued evolution of our Q.PRO family. Thanks to improved power yield, excellent reliability, and high-level operational safety, the new Q.PRO BFR-G4 generates electricity at a low cost (LCOE) and is suitable for a wide range of applications.



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 16.2 %.



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 $Tra.Q^{TM}$.



LIGHT-WEIGHT QUALITY FRAME

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



MAXIMUM COST REDUCTIONS

Up to 10 % lower logistics costs due to higher module capacity per box.



SAFE ELECTRONICS

Protection against short circuits and thermally induced power losses due to breathable junction box and welded cables.



A RELIABLE INVESTMENT

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

THE IDEAL SOLUTION FOR:

















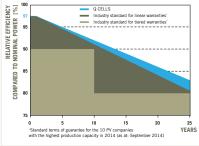
- APT test conditions: Cells at -1000V against grounded, with conductive metal foil covered module surface, 25 °C, 168 h
- See data sheet on rear for further information.



MECHANIC	AL SPECIFICATION
Format	$65.7\text{in}\times39.4\text{in}\times1.26\text{in}$ (including frame) (1670 mm \times 1000 mm \times 32 mm)
Weight	41.45 lb (18.8 kg)
Front Cover	0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodized aluminum
Cell	6×10 polycrystalline 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
Cable	4 mm² Solar cable; (+) \geq 39.37 in (1000 mm), (-) \geq 39.37 in (1000 mm)
Connector	Tyco Solarlok PV4, IP68

EL	ECTRICAL CHARACTERIS	TICS					
P0\	POWER CLASS 255 260 265						
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC1 (POWER TOLERANCE +5 W /- O W)							
	Power at MPP ²	P _{MPP}	[W]	255	260	265	
	Short Circuit Current*	I _{sc}	[A]	9.07	9.15	9.23	
Minimum	Open Circuit Voltage*	V _{oc}	[V]	37.54	37.77	38.01	
Μi	Current at MPP*	I _{MPP}	[A]	8.45	8.53	8.62	
	Voltage at MPP*	\mathbf{V}_{MPP}	[V]	30.18	30.46	30.75	
	Efficiency ²	η	[%]	≥15.3	≥15.6	≥15.9	
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOC3							
	Power at MPP ²	P_{MPP}	[W]	188.3	192.0	195.7	
Ę	Short Circuit Current*	I _{sc}	[A]	7.31	7.38	7.44	
Minimum	Open Circuit Voltage*	V_{oc}	[V]	34.95	35.16	35.38	
Ξ	Current at MPP*	I _{MPP}	[A]	6.61	6.68	6.75	
	Voltage at MPP*	V_{MPP}	[V]	28.48	28.75	29.01	
1100	1000 W/m², 25 °C, spectrum AM 1.5G 2 Measurement tolerances STC ±3 %; NOC ±5 % 3 800 W/m², NOCT, spectrum AM 1.5G *typical values, actual values may differ						

Q CELLS PERFORMANCE WARRANTY



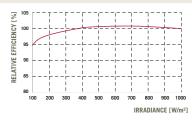
At least 97% of nominal power during first year. Thereafter max. 0.6% degradation per year.

At least 92% of nominal power after 10 years.

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 °C and AM 1.5G spectrum) is -2 % (relative).

TEMPERA	TURE	COEFFIC	IENTS
	II OILL	0011110	

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]	-0.41	Normal Operating Cell Temperature	NOCT	[°F]	$113 \pm 5.4 \ (45 \pm 3 \ ^{\circ}\text{C})$

PROPERTIES FOR SYSTEM DESIGN					
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/ft²]	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/ft²]	55.6 (2666 Pa)	² see installation manual		

QUALIFICATIONS AND CERTIFICATES 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 Number of Pallets per 53' Container 32 Number of Pallets per 40' Container 26 Pallet Dimensions (L x W x H) 68.7 in x 45.0 in x 46.0 in (1745 x 1145 x 1170 mm)

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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Pallet Weight



1435 lb (651 kg)