

The new Q.PRO BFR-G3 is the reliable evergreen for all applications, with a black frame design for improved aesthetics. 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.

INNOVATIVE ALL-WEATHER TECHNOLOGY

- Maximum yields with excellent low-light and temperature behaviour.
- Certified fully resistant to level 5 salt fog

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.







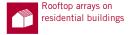


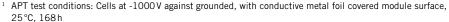


THE IDEAL SOLUTION FOR:







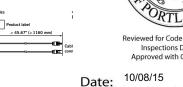


² See data sheet on rear for further information.



Reviewed for Code Compliance Inspections Division
Approved with Conditions

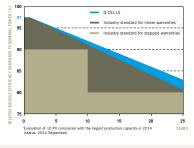
10/08/15 Date:



MECHANICAL SPECIFICATION					
Format	65.7 in \times 39.4 in x 1.38 in (including frame) (1670 mm \times 1000 mm \times 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				
Back Cover	Composite film				
Frame	Black anodized aluminum				
Cell	6×10 polycrystalline solar cells				
Junction box	Protection class IP67, with bypass diodes				
Cable	4 mm² Solar cable; (+) \geq 45.67 in (1160 mm), (-) \geq 45.67 in (1160 mm)				
Connector	SOLARLOK PV4, IP68				

ELECTRICAL CHARACTERISTICS						
PERFORMANCE AT STANDARD TEST CONDITIONS (STC: 1000 W/m², 25°C, AM 1.5 G SPECTRUM)¹						
NOMINAL POWER (+5 W/-0 W)	[W]	255	260	265		
Average Power	P _{MPP} [W]	257.5	262.5	267.5		
Short Circuit Current	I _{sc} [A]	8.90	9.09	9.28		
Open Circuit Voltage	V _{oc} [V]	37.83	38.18	38.52		
Current at P _{MPP}	I _{MPP} [A]	8.37	8.53	8.69		
Voltage at P _{MPP}	V _{MPP} [V]	30.77	30.78	30.79		
Efficiency (Nominal Power)	η [%]	≥15.3	≥15.6	≥15.9		
PERFORMANCE AT NORMAL OPERATING CELL TEMPERATURE (NOCT: 800 W/m², 45 ± 3°C. AM 1.5 G SPECTRUM)²						
NOMINAL POWER (+5 W/-0 W)	[W]	255	260	265		
Average Power	P _{MPP} [W]	189.7	193.4	197.1		
Short Circuit Current	I _{sc} [A]	7.18	7.33	7.48		
Open Circuit Voltage	V _{oc} [V]	35.22	35.54	35.86		
Current at P _{MPP}	I _{MPP} [A]	6.56	6.68	6.80		
Voltage at P _{MPP}	V _{MPP} [V]	28.92	28.94	28.97		
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



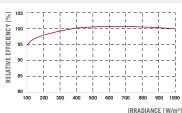
At least 97% of nominal power during first year. Thereafter max. 0.6 % degra-

dation per year. At least 92% of nominal power after

At least 83% of nominal power after

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 $1.5\,G$ spectrum) is -2 % (relative).

TEMPERATURE COEFFICIENTS (AT 1000 W/M², 25 °C, AM 1.5 G SPECTRUM)

Temperature Coefficient of I _{sc}	α	[%/K]	+0.04	Temperature Coefficient of \mathbf{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 DESIGN					
Maximum System Voltage V _{SYS}	[V]	1000 (IEC) / 600 (UL)	Safety Class	II	
Maximum Series Fuse Rating	[A DC]	20	Fire Rating	С	
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]	75 (3600 Pa)	² see installation manual		

QUALIFICATIONS AND CERTIFICATES	PACKAGING INFORMATION	
UL 1703; VDE Quality Tested; CE-compliant;	Number of Modules per Pallet	29
IEC 61215 (Ed.2); IEC 61730 (Ed.1) application class A	Number of Pallets per 53' Container	32
	Number of Pallets per 40' Container	26
C Conflict US UL 1703 (254141)	Pallet Dimensions ($L \times W \times H$)	$68.5 \text{in} \times 44.5 \text{in} \times 46.0 \text{in}$ (1740 × 1130 × 1170 mm)
	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

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