

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 LEVELIZED COST OF ELECTRICITY

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 behaviour.



## **ENDURING HIGH PERFORMANCE**

Long-term yield security with Anti-PID Technology<sup>1</sup>, Hot-Spot Protect and Traceable Quality  $Tra.Q^{TM}$ .



#### **LIGHT-WEIGHT QUALITY FRAME**

High-tech aluminium 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 guarantee<sup>2</sup>.

#### THE IDEAL SOLUTION FOR:











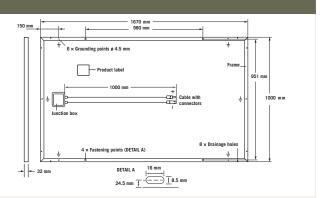






- APT test conditions: Cells at -1000 V against grounded, with conductive metal foil covered module surface, 25°C, 168 h
- See data sheet on rear for further information.





EL	ECTRICAL CHARACTERIS	STICS									
PO	WER CLASS			255	260	265					
MII	MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC¹ (POWER TOLERANCE +5 W /- OW)										
	Power at MPP <sup>2</sup>	$P_{MPP}$	[W]	255	260	265					
_	Short Circuit Current*	I <sub>sc</sub>	[A]	9.07	9.15	9.23					
Minimum	Open Circuit Voltage*	V <sub>oc</sub>	[V]	37.54	37.77	38.01					
Min	Current at MPP*	I <sub>MPP</sub>	[A]	8.45	8.53	8.62					
_	Voltage at MPP*	$V_{\mathrm{MPP}}$	[V]	30.18	30.46	30.75					
	Efficiency <sup>2</sup>	η	[%]	≥15.3	≥15.6	≥15.9					
MII	MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOC <sup>3</sup>										
	Power at MPP <sup>2</sup>	$P_{MPP}$	[W]	188.3	192.0	195.7					
트	Short Circuit Current*	I <sub>sc</sub>	[A]	7.31	7.38	7.44					
Minimum	Open Circuit Voltage*	V <sub>oc</sub>	[V]	34.95	35.16	35.38					
Ξ	Current at MPP*	I <sub>MPP</sub>	[A]	6.61	6.68	6.75					
	Voltage at MPP*	$V_{\mathrm{MPP}}$	[V]	28.48	28.75	29.01					
<sup>1</sup> 100	0 W/m², 25 °C, spectrum AM 1.5 G	<sup>2</sup> Measurement tolerances STC ±3	%; NOC ±5 %	$^3800$ W/m², NOCT, spectrum AM $1.5\mathrm{G}$	* typical values, actual values may differ						

Q CELLS PERFORMANCE WARRANTY

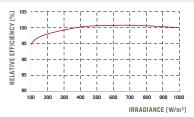
# 20 25 YEARS

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

#### TEMPERATURE COEFFICIENTS

Temperature Coefficient of I <sub>sc</sub>	α	[%/K]	+0.04	Temperature Coefficient of $\mathbf{V}_{\text{oc}}$	β	[%/K]	-0.30
Temperature Coefficient of P <sub>MPP</sub>	γ	[%/K]	-0.41	Normal Operating Cell Temperature	NOCT	[°C]	45

PROPERTIES FOR SYSTEM DESIGN							
Maximum System Voltage	$\mathbf{V}_{sys}$	[ <b>V</b> ]	1000	Safety Class	II		
Maximum Reverse Current	I <sub>R</sub>	[A]	20	Fire Rating	С		
Wind/Snow Load (in accordance with IEC 61215)		[Pa]	4000/5400	Permitted Module Temperature On Continuous Duty	$-40~^{\circ}\text{C}$ up to $+85~^{\circ}\text{C}$		

# **QUALIFICATIONS AND CERTIFICATES**

# **PARTNER**

VDE Quality Tested, IEC 61215 (Ed. 2); IEC 61730 (Ed. 1), Application class A This data sheet complies with DIN EN 50380.





**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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