St Marys Fire Station

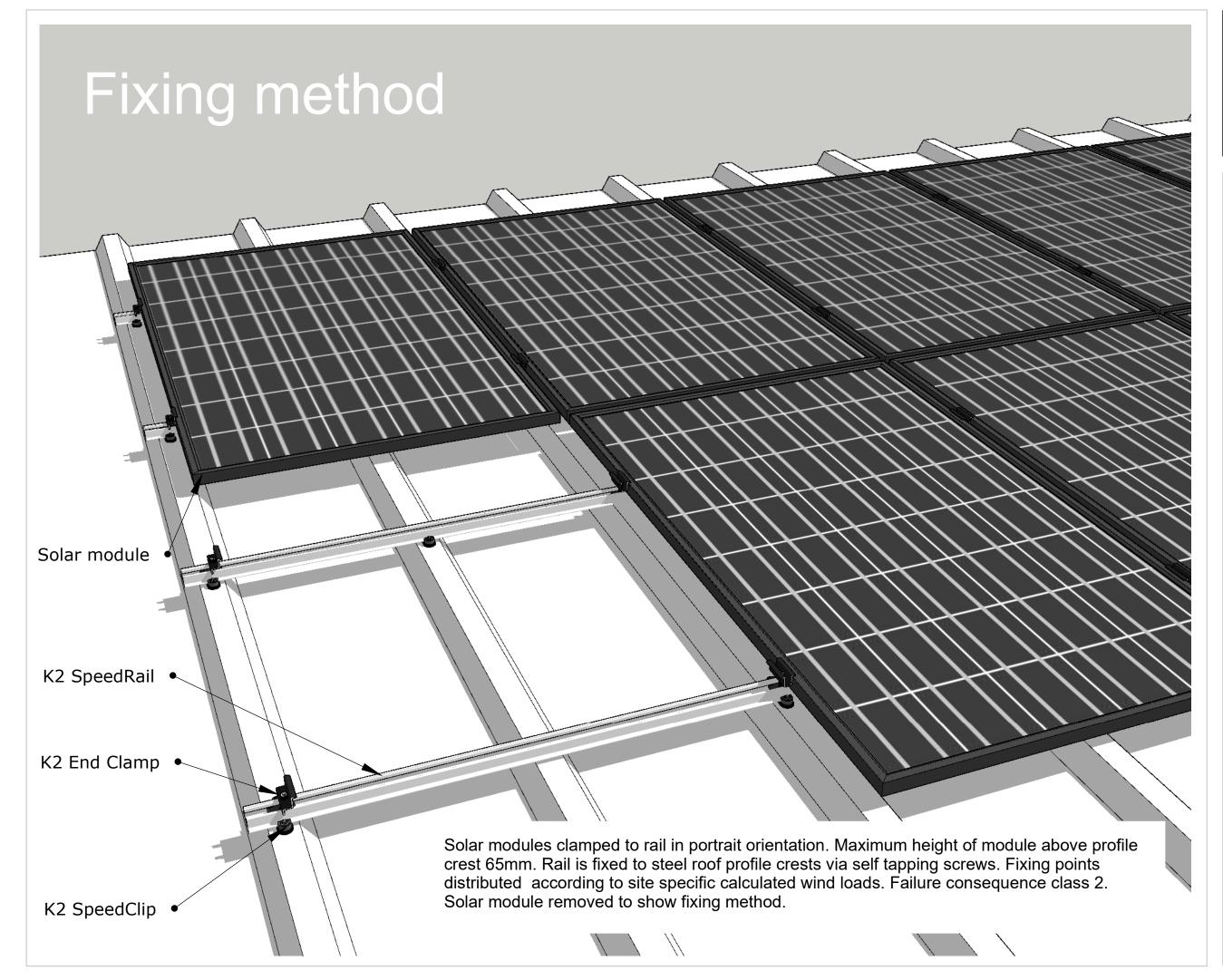
9.7kW South 9,600kWh Annual generation



9.7kW South 9,600kWh Annual generation

Array layout

9.7kW South 9,600kWh Annual generation



9,600kWh Annual generation

South

1670 mm × 1000 mm × 32 mm (including frame) Weight Front Cover 3.2mm thermally pre-stressed glass with anti-reflection technolog \Box Back Cover Composite film Frame Black anodised aluminium Cell 6 × 10 monocrystalline Q.ANTUM solar cells Junction box 66-77mm × 115-90mm × 15-19mm 4 mm² Solar cable; (+) 1000 mm, (-) 1000 mm Multi-Contact MC4 or MC4 intermateable, IP68. Connector ELECTRICAL CHARACTERISTICS

PO	WER CLASS		285	290	295
MII	NIMUM PERFORMANCE AT STAM	IDARD TEST CONDITIONS, STC1 (POWER TOLE	RANCE +5W / -0 W)		
	Power at MPP ²	Pmp	285	290	295
	Short Circuit Current*	I _{sc}	9.56	9.63	9.70
	Open Circuit Voltage*	V _∞	38.91	39.19	39.48
Minim um	Current at MPP*	IMPP	8.98	9.07	9.17
	Voltage at MPP*	VMPP	31.73	31.96	32.19
	Efficiency ²	η	≥17.1	≥17.4	≥17.7
MII	NIMUM PERFORMANCE AT NORI	MAL OPERATING CONDITIONS, NOC3			
Minimum	Power at MPP ²	P _{MPP}	210.9	214.6	218.3
	Short Circuit Current*	I _{sc}	7.71	7.77	7.82
	Open Circuit Voltage*	V _{ec}	36.38	36.65	36.92
	Current at MPP*	larr	7.04	7.12	7.20
	Voltage at MPP*	V _{MPP}	29.95	30.14	30.33
100	0W/m², 25°C, spectrum AM 1.5 G	2 Measurement tolerances STC $\pm3\%$; NOC $\pm5\%$	3 800 W/m², NOCT, spectrum AM 1.5G	* typical values, actual values may differ	
	ELLO DEDECONIALIOS ILLA DOLLA DOLLA DE	The d	DEDECORA STOR OF LOSS I	DD ADIANOE	

Q CELLS PERFORMANCE WARRANTY At least 98% of nominal power during first year. Thereafter max. 0.6% degradation per year. At least 92.6% of nominal power up to 10 years. At least 83.6% 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

Typical module performance under low irradiance conditions in rison to STC conditions (25°C, 1000W/m²) α [%/K] + 0.04 Temperature Coefficient of V_{ec} β [%/K]

Temperature Coefficient of P _{MP}	Y	[%/K]	-0.39	Normal Operating Cell Temperature	NOCT	[°C]	45
PROPERTIES FOR SYSTEM DESIGN		20		Sec.			
Maximum System Voltage	VSYS	[V]	1000	Safety Class		II	
Maximum Reverse Current	I _R	[A]	20	Fire Rating		С	
Wind/Snow Load (Test-load in accordance with IEC 61215)		[Pa]	4000/5400	Permitted Module Temperature On Continuous Duty		-40°C up to +85°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



TEMPERATURE COEFFICIENTS Temperature Coefficient of I_{sc}

NOTE: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation



The new Q.PEAK DUO BLK-G5 solar module from Q CELLS impresses with its outstanding visual appearance and particularly high performance on a small surface thanks to the innovative Q.ANTUM DUO Technology. Q.ANTUM's world-record-holding cell concept has now been combined with state-of-the-art circuitry half cells and a six-busbar design, thus achieving outstanding performance under real conditions — both with low-intensity solar radiation as well as on hot, clear summer days.



Q.ANTUM TECHNOLOGY: LOW LEVELIZED COST OF ELECTRICITY

Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 19.3%.



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 LID Technology, Anti PID Technology¹, Hot-Spot Protect and Traceable Quality Tra.Q™.



EXTREME WEATHER RATING

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



A RELIABLE INVESTMENT

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



STATE OF THE ART MODULE TECHNOLOGY

Q.ANTUM DUO combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology.

THE IDEAL SOLUTION FOR:





1 APT test conditions according to IEC/TS 62804-1:2015,

method B (-1500V, 168h) See data sheet on rear for further

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(SS.P)
TRACEABLE GRALIT
(TRA.B.P)

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