

THE IDEAL SOLUTION FOR:

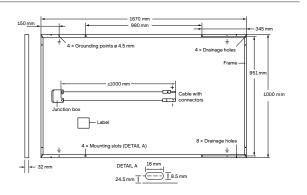


Rooftop arrays on residential buildings



Rooftop arrays on commercial/industrial buildings





ELECTRICAL CHARACTERISTICS

PO	WER CLASS			300	305	310	315	320
MIN	IIMUM PERFORMANCE AT STANDARD	TEST CONDITIO	NS, STC1 (PC	OWER TOLERANCE	+5W/-0W)			
	Power at MPP¹	P _{MPP}	[W]	300	305	310	315	320
_	Short Circuit Current ¹	I _{SC}	[A]	9.77	9.84	9.91	9.98	10.05
mun	Open Circuit Voltage ¹	V _{oc}	[V]	39.76	40.05	40.33	40.62	40.90
Minir	Current at MPP	I _{MPP}	[A]	9.26	9.35	9.44	9.53	9.63
_	Voltage at MPP	V_{MPP}	[V]	32.41	32.62	32.83	33.04	33.24
	Efficiency ¹	η	[%]	≥18.0	≥18.3	≥18.6	≥18.9	≥19.2
MIN	IIMUM PERFORMANCE AT NORMAL OI	PERATING CONI	DITIONS, NM	IOT ²				
	Power at MPP	P _{MPP}	[W]	224.3	228.0	231.8	235.5	239.2
E	Short Circuit Current	I _{sc}	[A]	7.87	7.93	7.99	8.04	8.10
ij	Open Circuit Voltage	V _{oc}	[V]	37.48	37.76	38.03	38.30	38.57
Ē	Current at MPP	I _{MPP}	[A]	7.28	7.35	7.43	7.51	7.59
	Voltage at MPP	V _{MPP}	[V]	30.82	31.00	31.18	31.36	31.53

 $^{1}\text{Measurement tolerances P}_{\text{MPP}}\pm3\%; l_{\text{SC}}; V_{\text{OC}}\pm5\% \text{ at STC}: \\ 1000\text{W/m}^{2}, 25\pm2\text{°C}, \text{AM 1.5G according to IEC 60904-3} \\ \bullet ^{2}\text{800W/m}^{2}, \text{NMOT, spectrum AM 1.5G according to IEC 60904-3} \\ \bullet ^{2}\text{800W/m}^{2}, \text{NMOT, spectrum AM 1.5G according to IEC 60904-3} \\ \bullet ^{2}\text{800W/m}^{2}, \text{NMOT, spectrum AM 1.5G according to IEC 60904-3} \\ \bullet ^{2}\text{800W/m}^{2}, \text{NMOT, spectrum AM 1.5G according to IEC 60904-3} \\ \bullet ^{2}\text{800W/m}^{2}, \text{NMOT, spectrum AM 1.5G according to IEC 60904-3} \\ \bullet ^{2}\text{800W/m}^{2}, \text{NMOT, spectrum AM 1.5G according to IEC 60904-3} \\ \bullet ^{2}\text{800W/m}^{2}, \text{NMOT, spectrum AM 1.5G according to IEC 60904-3} \\ \bullet ^{2}\text{800W/m}^{2}, \text{NMOT, spectrum AM 1.5G according to IEC 60904-3} \\ \bullet ^{2}\text{800W/m}^{2}, \text{NMOT, spectrum AM 1.5G according to IEC 60904-3} \\ \bullet ^{2}\text{800W/m}^{2}, \text{NMOT, spectrum AM 1.5G according to IEC 60904-3} \\ \bullet ^{2}\text{800W/m}^{2}, \text{NMOT, spectrum AM 1.5G according to IEC 60904-3} \\ \bullet ^{2}\text{800W/m}^{2}, \text{NMOT, spectrum AM 1.5G according to IEC 60904-3} \\ \bullet ^{2}\text{800W/m}^{2}, \text{NMOT, spectrum AM 1.5G according to IEC 60904-3} \\ \bullet ^{2}\text{800W/m}^{2}, \text{NMOT, spectrum AM 1.5G according to IEC 60904-3} \\ \bullet ^{2}\text{800W/m}^{2}, \text{NMOT, spectrum AM 1.5G according to IEC 60904-3} \\ \bullet ^{2}\text{800W/m}^{2}, \text{NMOT, spectrum AM 1.5G according to IEC 60904-3} \\ \bullet ^{2}\text{800W/m}^{2}, \text{NMOT, spectrum AM 1.5G according to IEC 60904-3} \\ \bullet ^{2}\text{800W/m}^{2}, \text{NMOT, spectrum AM 1.5G according to IEC 60904-3} \\ \bullet ^{2}\text{800W/m}^{2}, \text{NMOT, spectrum AM 1.5G according to IEC 60904-3} \\ \bullet ^{2}\text{800W/m}^{2}, \text{NMOT, spectrum AM 1.5G according to IEC 60904-3} \\ \bullet ^{2}\text{800W/m}^{2}, \text{NMOT, spectrum AM 1.5G according to IEC 60904-3} \\ \bullet ^{2}\text{800W/m}^{2}, \text{NMOT, spectrum AM 1.5G according to IEC 60904-3} \\ \bullet ^{2}\text{800W/m}^{2}, \text{NMOT, spectrum AM 1.5G according to IEC 60904-3} \\ \bullet ^{2}\text{800W/m}^{2}, \text{NMOT, spectrum AM 1.5G according to IEC 60904-3} \\ \bullet ^{2}\text{800W/m}^{2}, \text{NMOT, spectrum AM 1.5G according to IEC 60904-3} \\ \bullet ^{2}\text{800W/m}^{2}, \text{NMOT, spectrum AM 1.5G$

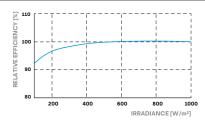
Q CELLS PERFORMANCE WARRANTY

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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 organisation of your respective country.

PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25 $^{\circ}$ C, 1000 W/m²).

TEMPERATURE COEFFICIENTS							
Temperature Coefficient of I _{SC}	α	[%/K]	+0.04	Temperature Coefficient of V _{oc}	β	[%/K]	-0.27
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.38	Normal Module Operating Temperature	NMOT	[°C]	43±3

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage	V_{SYS}	[V]	1000	Safety Class	II
Maximum Reverse Current	I_R	[A]	20	Fire Rating	С
Max. Design Load, Push / Pull		[Pa]	3600/2667	Permitted Module Temperature	-40°C - +85°C
Max. Test Load, Push / Pull		[Pa]	5400/4000	on Continuous Duty	

QUALIFICATIONS AND CERTIFICATES

PACKAGING INFORMATION

VDE Quality Tested, IEC 61215:2016; IEC 61730:2016, Application Class II; This data sheet complies with DIN EN 50380.





Number of Modules per Pallet	32
Number of Pallets per Trailer (24t)	30
Number of Pallets per 40' HC-Container (26t)	26
Pallet Dimensions (L × W × H)	1745 × 1150 × 1170 mm
Pallet Weight	651 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.

Made in Korea

Hanwha Q CELLS Australia Pty Ltd

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