

#### THE IDEAL SOLUTION FOR:



Rooftop arrays on residential buildings

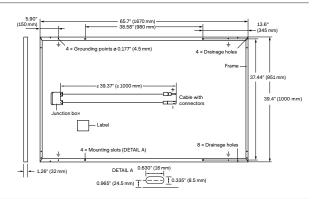


Rooftop arrays on commercial/industrial buildings



Ground-mounted solar power plants



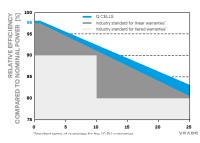


#### **ELECTRICAL CHARACTERISTICS**

PO	WER CLASS			305	310	315
MII	IIMUM PERFORMANCE AT STANDA	RD TEST CONDITIO	NS, STC¹ (POWE	R TOLERANCE +5W / -0W)		
Minimum	Power at MPP¹	P <sub>MPP</sub>	[W]	305	310	315
	Short Circuit Current <sup>1</sup>	I <sub>SC</sub>	[A]	9.82	9.89	9.96
	Open Circuit Voltage <sup>1</sup>	V <sub>oc</sub>	[V]	40.08	40.37	40.65
	Current at MPP	I <sub>MPP</sub>	[A]	9.33	9.42	9.52
	Voltage at MPP	V <sub>MPP</sub>	[V]	32.68	32.89	33.10
	Efficiency <sup>1</sup>	η	[%]	≥18.3	≥18.6	≥18.9
MIN	IIMUM PERFORMANCE AT NORMA	L OPERATING COND	OITIONS, NMOT <sup>2</sup>			
Minimum	Power at MPP	P <sub>MPP</sub>	[W]	227.6	231.3	235.0
	Short Circuit Current	I <sub>sc</sub>	[A]	7.91	7.97	8.02
	Open Circuit Voltage	V <sub>oc</sub>	[V]	37.72	37.99	38.26
	Current at MPP	I <sub>MPP</sub>	[A]	7.34	7.42	7.50
	Voltage at MPP	V <sub>MPP</sub>	[V]	30.99	31.17	31.34

¹Measurement tolerances P<sub>MPP</sub> ±3%; I<sub>SC</sub>; V<sub>OC</sub> ±5% at STC: 1000 W/m², 25±2°C, AM 1.5 according to IEC 60904-3 • ²800 W/m², NMOT, spectrum AM 1.5

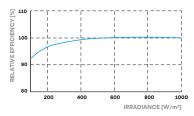
#### Q CELLS PERFORMANCE WARRANTY



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 organisation of your respective country.

## PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25  $^{\circ}\text{C},\,1000\,\text{W/m}^2)$ 

TEMPERATURE COEFFICIENTS							
Temperature Coefficient of I <sub>SC</sub>	α	[%/K]	+0.04	Temperature Coefficient of Voc	β	[%/K]	-0.28
Temperature Coefficient of P <sub>MPP</sub>	γ	[%/K]	-0.39	Normal Module Operating Temperature	NMOT	[°F]	109±5.4 (43±3°C)

## PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage $V_{\mbox{\scriptsize SYS}}$	[V]	1000 (IEC)/1000 (UL)	Safety Class	II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating based on ANSI/UL 1703	C/TYPE 2
Max. Design Load, Push / Pull <sup>3</sup>	[lbs/ft <sup>2</sup> ]	75 (3600 Pa) / 55 (2667 Pa)		-40°F up to +185°F
Max. Test Load, Push / Pull <sup>3</sup>	[lbs/ft <sup>2</sup> ]	113 (5400 Pa) / 84 (4000 Pa)	on Continuous Duty	(-40°C up to +85°C)

# QUALIFICATIONS AND CERTIFICATES

## PACKAGING INFORMATION

UL 1703, CE-compliant, IEC 61215:2016, IEC 61730:2016, Application Class II



3 See Installation Manual





Number of Modules per Pallet	32
Number of Pallets per 53' Container	30
Pallet Dimensions (L×W×H)	67.9 × 44.0 × 46.1 in (1725 × 1118 × 1170 mm)
Pallet Weight	1393 lbs (632 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.