

THE IDEAL SOLUTION FOR:

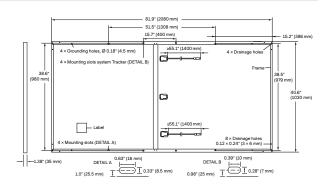


Rooftop arrays on commercial/industrial buildings



Ground-mounted solar power plants



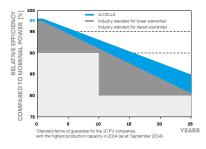


ELECTRICAL CHARACTERISTICS

PO	VER CLASS			415	420	425	430
MIN	IIMUM PERFORMANCE AT STANDARD TEST	CONDITIC	NS, STC1 (PO	WER TOLERANCE +5W/-0)W)		
	Power at MPP¹	P _{MPP}	[W]	415	420	425	430
_	Short Circuit Current ¹	I _{sc}	[A]	10.69	10.74	10.78	10.83
μnu	Open Circuit Voltage ¹	V _{oc}	[V]	48.59	48.84	49.09	49.33
Minir	Current at MPP	I _{MPP}	[A]	10.18	10.22	10.27	10.31
2	Voltage at MPP	V _{MPP}	[V]	40.77	41.08	41.39	41.70
	Efficiency ¹	η	[%]	≥19.4	≥19.6	≥19.8	≥20.1
MIN	IIMUM PERFORMANCE AT NORMAL OPERA	TING CON	DITIONS, NM	OT ²			
	Power at MPP	P _{MPP}	[W]	310.8	314.5	318.3	322.0
드	Short Circuit Current	I _{sc}	[A]	8.61	8.65	8.69	8.72
ij	Open Circuit Voltage	V _{oc}	[V]	45.82	46.05	46.29	46.52
Ē	Current at MPP	I _{MPP}	[A]	8.01	8.05	8.08	8.12
	Voltage at MPP	V _{MPP}	[V]	38.79	39.09	39.38	39.67
	voitage at ivirr	MPP	[v]	30.79	39.09	39.36	

¹Measurement tolerances P_{MPP} ±3%; I_{SC}; V_{OC} ±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

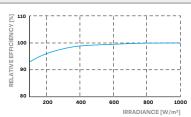
Q CELLS PERFORMANCE WARRANTY



At least 98 % of nominal power during first year. Thereafter max. 0.54 % degradation per year. At least 93.1% of nominal power up to 10 years. At least 85% 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 °C, 1000 W/m²)

TEMPERATURE COEFFICIENTS							
Temperature Coefficient of I _{sc}	α	[%/K]	+0.04	Temperature Coefficient of Voc	β	[%/K]	-0.27
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.35	Normal Module Operating Temperature	NMOT	[°F]	109±5.4 (43±3°C)

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage V _{SYS}	[V]	1500 (IEC)/1500 (UL)	Safety Class	II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating based on ANSI/UL 1703	C (IEC)/TYPE 1 (UL)
Max. Design Load, Push / Pull ³	[lbs/ft ²]	75 (3600 Pa) / 33 (1600 Pa)	Permitted Module Temperature	-40°F up to +185°F
Max. Test Load, Push / Pull ³	[lbs/ft ²]	113 (5400 Pa)/50 (2400 Pa)	on Continuous Duty	(-40°C up to +85°C)

Number of Modules per Pallet

QUALIFICATIONS AND CERTIFICATES

PACKAGING INFORMATION

UL 1703, CE-compliant, IEC 61215:2016, IEC 61730:2016, Application Class II, U.S. Patent No. 9,893,215 (solar cells)



3 See Installation Manual





	Number of Pallets per 53' Trailer	26
	Number of Pallets per 40' HC-Container	22
	Pallet Dimensions (L×W×H)	84.6 × 45.3 × 48.0 in (2150 × 1150 × 1220 mm)
_	Pallet Weight	1717 lbs (779 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.

Specifications subject to technical changes © Q CELLS Q.PEAK DUO L-G8.2_415-430_2019-07_Rev01_NA

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