

Q.PEAK DUO BLK-G6+ / AC 340-345

Q.ANTUM DUO SOLAR MODULE WITH INTEGRATED MICROINVERTER











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 19.5%.



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, Traceable Quality Tra.QTM.



EXTREME WEATHER RATING

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



A RELIABLE INVESTMENT

Inclusive 25-year product warranty and 25-year linear performance warranty².



STATE OF THE ART MODULE TECHNOLOGY

Q.ANTUM DUO Technology and the integrated high-powered Enphase IQ 7+ Microinverter achieving maximum system efficiency.



RELIABLE ENERGY MONITORING

Seamless management with the intelligent Enphase Enlighten $^{\!\top\!\!M}$ monitoring system.



RAPID SHUTDOWN COMPLIANT

Built-in rapid shutdown with no additional components required.



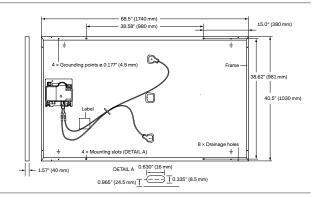


Rooftop arrays on residential buildings

² See data sheet on rear for further information



 $^{^{\}rm 1}$ APT test conditions according to IEC/TS 62804-1:2015, method B (–1500 V, 168 h)



AC OUTPUT ELECTRICAL CHARACTERISTICS

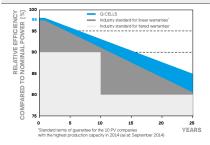
IQ7PLUS-72-ACM-US OR IQ7PLUS-72-E-ACM-US						
Peak Output Power	[VA]	295	AC Short Circuit Fault Current over 3 Cycles	5.8 Arms		
Max. Continuous Output Power	[VA]	290	Max. Units per 20 A (L-L) Branch Circuit	13		
Nominal (L-L) Voltage / Range	[V]	240/211~264	Overvoltage Class AC Port	III		
Max. Continuous Output Current	[A]	1.21	AC Port Backfeed Current	18mA		
Nominal Frequency	[Hz]	60	Power Factor Setting	1		
Extended Frequency Range	[Hz]	47 - 68	Power Factor (adjustable)	0.85 leading 0.85 lagging		

DC ELECTRICAL CHARACTERISTICS

POWER CLASS			340	345				340	345
MINIMUM PERFORMANCE A	AT STANE	DARD TEST	CONDITIONS, S	ΓC¹ (POWER	TOLERANCE +5 W / -0 W)				
Min. Power at MPP ¹	P _{MPP}	[W]	340	345	Min. Current at MPP	I _{MPP}	[A]	10.02	10.07
Min. Short Circuit Current ¹	I _{sc}	[A]	10.52	10.58	Min. Voltage at MPP	V _{MPP}	[V]	33.94	34.25
Min. Open Circuit Voltage ¹	Voc	[V]	40.66	40.92	Min. Efficiency ¹	η	[%]	≥19.0	≥19.3

 $^{^{1}}$ Measurement 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

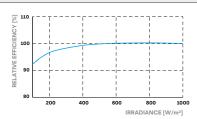
Q CELLS PERFORMANCE WARRANTY



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 organization 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 Voc	β	[%/K]	-0.27
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.36	Nominal Module Operating Temperature	NMOT	[°F]	109±5.4 (43±3°C)

PROPERTIES FOR DC SYSTEM DESIGN

Maximum System Voltage V _{SYS}	[V]	1000	PV Module Classification	Class II	
Maximum Series Fuse Rating	[A DC]	20	Fire Rating based on ANSI/UL 1703	TYPE 2	
Max. Design Load, Push / Pull ³	[lbs/ft²]	75 (3600 Pa) / 55 (2667 Pa)	Permitted Module Temperature	-40°F up to +185°F	
Max. Test Load, Push/Pull ³ [lbs/ft ²]		113 (5400 Pa) / 84 (4000 Pa)	on Continuous Duty	(-40°C up to +85°C)	
³ See Installation Manual					

QUALIFICATIONS AND CERTIFICATES

(A) TÜVRheinland



Number of Modules per Pallet		26
Number of Pallets per Trailer (24 t)		28
Number of Pallets per 40' HC-Contain	ner (26 t)	26
Pallet Dimensions (L × W × H)	70.1 × 42.5 × 47.6 in (1780 × 1080 × 1208	mm)
Pallet Weight	1310 lbs (59-	4 kg)

PACKAGING INFORMATION

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 BLK-G6+_AC_340-345_2020-07_Rev01_NA

Solar module: UL 1703, U.S. Patent No. 9,893,215 (solar cells); Enphase micro inverter: UL 1741-SA, UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 107.1-01, Rapid Shutdown Compliant per NEC-2014

& 2017 & C22.1-2015