

The Q.ANTUM solar module Q.PLUS L-G4.2 with power classes up to 345 Wp is the strongest module of its type on the market globally. Powered by 72 Q CELLS solar cells Q.PLUS L-G4.2 was specially designed for large solar power plants to reduce BOS costs. But there is even more to our polycrystalline modules. Only Q CELLS offers German engineering quality with our unique triple Yield Security.



# **LOW ELECTRICITY GENERATION COSTS**

Higher yield per surface area and lower BOS costs thanks to higher power classes and an efficiency rate of up to 17.6 %.



### **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-PID Technology1, Hot-Spot-Protect and Traceable Quality Tra.Q™.



#### LIGHT-WEIGHT QUALITY FRAME

High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (2400 Pa).



## A RELIABLE INVESTMENT

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









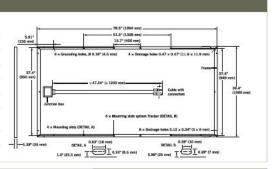
APT test conditions: Cells at -1000 V against grounded, with conductive metal foil covered module surface, 25°C,

<sup>2</sup> See data sheet on rear for further information.



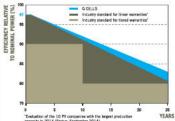






PO	WER CLASS			320	325	330	335	340	345
	NIMUM PERFORMANCE AT STANDARD TEST	CONDITIONS, STC	(POWER TOLER						
	Power at MPP <sup>2</sup>	P <sub>MPP</sub>	[W]	320	325	330	335	340	345
Minimum	Short Circuit Current*	Isc	[A]	9.39	9.44	9.49	9.54	9.59	9.64
	Open Circuit Voltage*	V <sub>oc</sub>	[V]	46.17	46.43	46.68	46.94	47.20	47.46
	Current at MPP*	I <sub>MPP</sub>	[A]	8.79	8.85	8.91	8.97	9.03	9.09
	Voltage at MPP*	V <sub>MPP</sub>	[V]	36.39	36.70	37.02	37.33	37.63	37.9
	Efficiency <sup>2</sup>	η	[%]	≥16.0	≥16.3	≥16.5	≥16.8	≥17.1	≥17.3
MII	NIMUM PERFORMANCE AT NORMAL OPERA	TING CONDITIONS, N	10C3						
	Power at MPP <sup>2</sup>	P <sub>MPP</sub>	[W]	237.2	241.0	244.7	248.4	252.1	255.8
E	Short Circuit Current*	I <sub>sc</sub>	[A]	7.57	7.61	7.65	7.69	7.73	7.7
MINIMIN	Open Circuit Voltage*	V <sub>oc</sub>	[V]	43.08	43.32	43.56	43.81	44.05	44.29
Ž	Current at MPP*	I <sub>MPP</sub>	[A]	6.89	6.94	6.99	7.04	7.09	7.14
	Voltage at MPP*	V <sub>MPP</sub>	[V]	34.44	34.72	35.01	35.29	35.56	35.83

#### **Q CELLS PERFORMANCE WARRANTY**

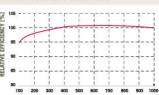


At least 97% of nominal power during first year. Thereafter max. 0.6% degra-dation per year. At least 92% of nominal power after

10 years. At least 83 % of nominal power after

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



The typical change in module efficiency at an irradiance of 200 W/m $^2$  in relation to 1000 W/m $^2$  (both at 25 °C and AM 1.5G spectrum) is -1.5% (relative).

IRRADIANCE [W/m²]

# TEMPERATURE COEFFICIENTS

Temperature Coefficient of I <sub>sc</sub>	α	[%/K]	+0.04	Temperature Coefficient of $V_{\text{oc}}$	β	[%/K]	-0.29
Temperature Coefficient of P <sub>MPP</sub>	γ	[%/K]	-0.40	Normal Operating Cell Temperature	NOCT	[°F]	$113 \pm 5.4 (45 \pm 3 ^{\circ}C)$

PROPERTIES FOR SYSTEM D	ESIGN			
Maximum System Voltage V <sub>sys</sub>	[V]	1500 (IEC) / 1500 (UL)	Safety Class	11
Maximum Series Fuse Rating	[A DC]	15	Fire Rating	C / Type 1
Max Load (UL) <sup>2</sup>	[lbs/ft²]	75 (3600 Pa)	Permitted module temperature on continuous duty	-40°F up to +185°F (-40°C up to +85°C)
Load Rating (UL) <sup>2</sup>	[lbs/ft²]	33 (1600 Pa)	<sup>2</sup> see installation manual	

# **QUALIFICATIONS AND CERTIFICATES**

IEC 61215 (Ed. 2); IEC 61730 (Ed. 1), Application class A This data sheet complies with DIN EN 50380.







PACKAGING INFORMATION					
Number of Modules per Pallet					
Number of Pallets per 40' Container					
Pallet Dimensions ( L × W × H )					

et	29
ontainer	22
LU V	91 2 v 45 2 v 46 0 in

**Pallet Weight** 

1671 lbs (758 kg)

(2065 x 1150 x 1190 mm)

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.

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