

The QLX by QSOLAR

- ✓ The lightest rigid silicon panel ever
- ✓ New Heat Sink Technology
- ✓ No EVA, no TPT and no glass
- ✓ 10x the impact strength of glass

About the QSOLAR QLX

The QLX is the lightest durable silicon PV module in the world, up to 20% lighter than conventional modules for the same power rating, and with greater impact strength.

It uses our groundbreaking icycells® technology, allowing air to circulate through ducts behind the cells, and incorporating UV-reflecting technology to maintain constant cell temperature.

HST - Heat Sink Technology

Since the inception of solar cells and solar panels, there has been an ongoing effort to increase efficiency. The main effort was concentrated in increasing the efficiency of solar cells, something which was achieved but with a significant increase in cost. In general, high-efficiency cells are up to 25% more expensive than lower-efficiency cells, although even then the final panel output does not change; only the panel area changes.

A higher-efficiency panel requires less area than a lower-efficiency panel to produce the same power. The differences in area are usually of the order of 5%, something that is insignificant in most cases.

QSOLAR developed its second-generation panels by incorporating a heat sink in the substrate, without increasing the cost. As a result, QSOLAR panels run cooler than glass panels, especially in hot climates. QSOLAR HST reduces the temperature of the cells in a solar panel by up to 10°C in comparison to glass panels. In this way, QSOLAR panels produce **up to 5% more power than any other glass panel with the same type of cells**. To put it a simpler way, instead of increasing the cell efficiency at a higher cost, QSOLAR has increased the efficiency of the end product, the solar panel, without any increase in the cost at all. And this is applicable to panels using any type of cell.



- ✓ PID-free
- ✓ 10-year product warranty
- ✓ Available in any color



QSOLAR modules are encapsulated with our patented SPRAYTEK99® material, which offers better protection than glass and EVA. Using this material, we are able to produce lightweight, flexible, impenetrable panels with no exposed metal parts, of any size, any power and any colour.



Model	QS 210 QLX	QS 250 QLX	QS 270 QLX	QS 300 QLX	QS 350 QLX	QS 370 QLX	QS 410 QLX
General Specifications							
Length (mm)	1503	1661	1819	1977	2287	2445	2293
Width (mm)	994	994	994	994	994	994	1220
Depth (mm)	16.5	16.5	16.5	16.5	16.5	16.5	16.5
Weight (kg)	13.8	15.3	16.8	18.2	21.1	22.5	25.9
Number of Cells	54	60	66	72	84	90	98
Electrical Specifications							
Pmax (W)	210	250	270	300	350	370	410
Vmp (V)	27.7	31.6	34.3	37.9	44.2	47.3	50.5
Imp (A)	7.87	8.14	8.05	8.14	8.14	8.14	8.14
Voc (V)	33.5	37.9	41.3	45.4	53	56.8	60.6
Isc (A)	8.46	8.68	8.6	8.68	8.68	8.68	8.68
Module Efficiency	14.1%	15.1%	14.9%	15.3%	15.4%	15.2%	14.7%
Number of Bypass Diodes	3	3	3	3	10	10	10
Power Tolerance				+5%			
Maximum System Voltage (V)				1000			
Fuse Rating (A)				15			
Component Data							
Cell Type	Polycrystalline silicon						
Cell Dimensions (mm)	156 x 156						
Frame	None						
Edge Protection	Thin polymer channel						
Encapsulant	Spraytek99® ESS®						
Backsheet	Aluminium icycells® with HST						
Junction Box	IP67 Class II (IEC/UL Certified)						
Output Cables	1.2 m, 6 mm, PV Cable (IEC/UL Certified)						
Connectors	MC4 IP67 (IEC/UL Certified)						
Temperature Coefficients							
Pmax (%/°C)	-0.43						
Vmp (%/°C)	-0.43						
Imp (%/°C)	-0.019						
Voc (%/°C)	-0.32						
Isc (%/°C)	+0.04						

Local Distributor Information:



About QSOLAR

QSOLAR is a leading innovator in solar panel technology, bringing about the first major change in solar panel manufacturing since the inception of the industry some 60 years ago. Visit WWW.QSOLAR.NET to find out more.

QSOLAR Limited is a Canadian company headquartered in Calgary (Alberta) and listed on the Canadian Stock Exchange (CSE) under the symbol QSL (www.cnsx.ca).

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