QSOLAR.
think different.think better.think qsolar

The QLX-DR by QSOLAR

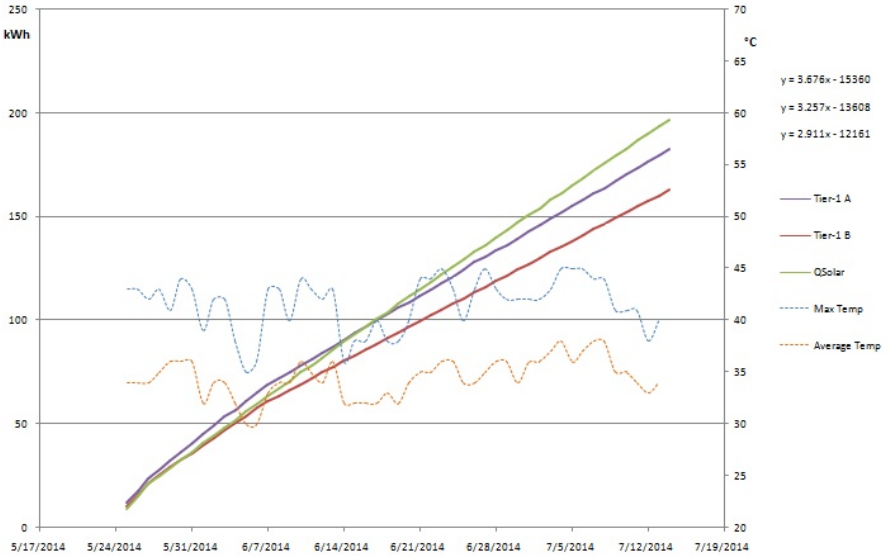
- Most efficient hot-climate module ever made
- New Heat Sink Technology
- No EVA, no TPT and no glass
- 10x the impact strength of glass
- PID-free
- 10-year product warranty
- Available in any color

About the QSOLAR QLX-DR

The QLX-DR is the star of QSOLAR's new HST-design range. It is the world's most efficient silicon-cell module in high temperatures.

The design of the QLX-DR is exceptionally optimized for hot and arid climates. The integrated heat-sink allows the QLX-DR to outperform all silicon-cell competitors by 10% to 20% each and every day in temperatures above 30°C. Whatever the heat, it keeps cell-temperature constant; a feat impossible for conventional panels.

Additionally, the QLX-DR benefits from all the other characteristics of our cutting-edge proprietary manufacturing techniques. Thin, sleek with striking looks, and practically unbreakable, the QLX-DR is the perfect solar solution for all high-temperature environments, guaranteed to dramatically increase power output.



Model	QS 250 QLX-DR
General Specifications	
Length (mm)	1661
Width (mm)	1010
Depth (mm)	22
Weight (kg)	25.2
Number of Cells	60
Electrical Specifications	
Pmax (W)	250
Vmp (V)	31.6
Imp (A)	8.14
Voc (V)	37.9
Isc (A)	8.68
Module Efficiency	14.9%
Number of Bypass Diodes	3
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 Desert-Ready HST
Junction Box	IP67 Class II (IEC/UL Certified)
Output Cables	1.2 m, 6 mm² 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

SPRAYTEK99. encapsulation solar technology by qsolar

ESS process®

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.

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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