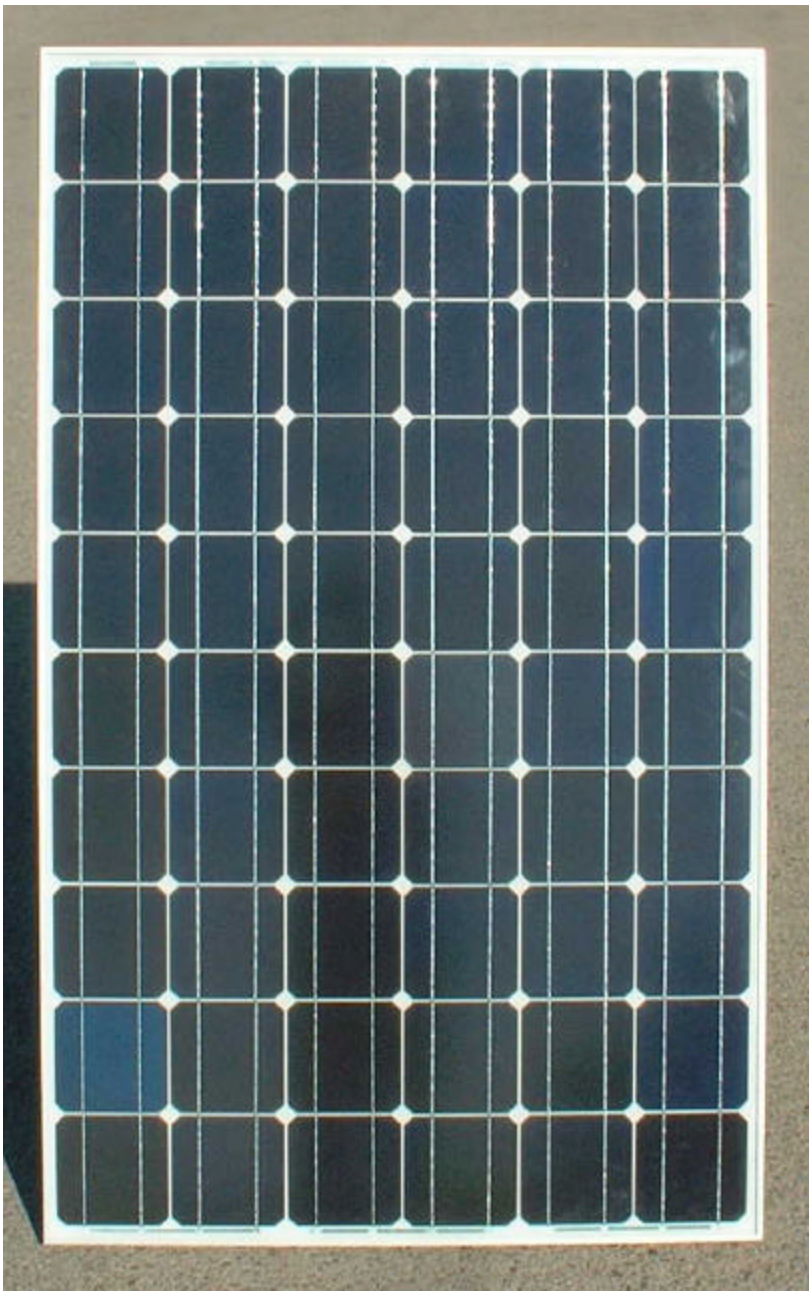
Module Datasheet
Type SLK60M6



Quality

Siliken photovoltaic modules are produced with components of the highest quality and in tightly controlled processes. These processes are based on successful techniques known in the production as Kaizen-technique. This allows Siliken to manufacture high quality modules for a good price because of lower rejection ratio in production. Therefore Siliken supplies its modules with a 10 years limited warranty on 90% of the power output and 25 years on 80%.

Manufacture Characteristics

The used solar cells are kept in place by several layers of EVA behind 3.2mm thick tempered glass. High efficiency monocrystalline 150x150 mm^2 cells with antireflection coating are being used. The electrical conductors are made of copper with tin and silver in order to improve conductivity. The conductors are welded by multiple points, which minimises the tension.

Junction box, SOLARLOK system from Tyco



Tyco junction box with anti-error + and – connector. It is possible to connect cables up to 6 mm^2 (AWG 8). Includes three bypass diodes, these can easily be replaced. The SOLARLOK System does not use welded junctions, to minimise possible welding errors.

Certifications

This module has been designed and manufactured according to IEC 61215 and safety standards of class II.

Models Type SLK60P6

SLK60M6-210Wp-30Vmpp

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Module Datasheet
Type SLK60M6

Electrical Data

Power max. (±5%)	P_{mpp}	210 Wp
Voltage mpp	V_{mpp}	30.6 V
Current mpp	I_{mpp}	6.86 A
Open Circuit Voltage	V_{oc}	37.2 V
Short Circuit Current	I_{sc}	7.52 A

Data related to standard test conditions (STC): 1000W/m^2 radiation, spectrum AM 1.5 and cell temperature 25ºC.

Dimensions

Dimensions (tolerance ±2mm)	955x1580 mm^2
Thickness with frame, including junction box	40 mm
Approximate weight	17 kg

Module temperature coefficients

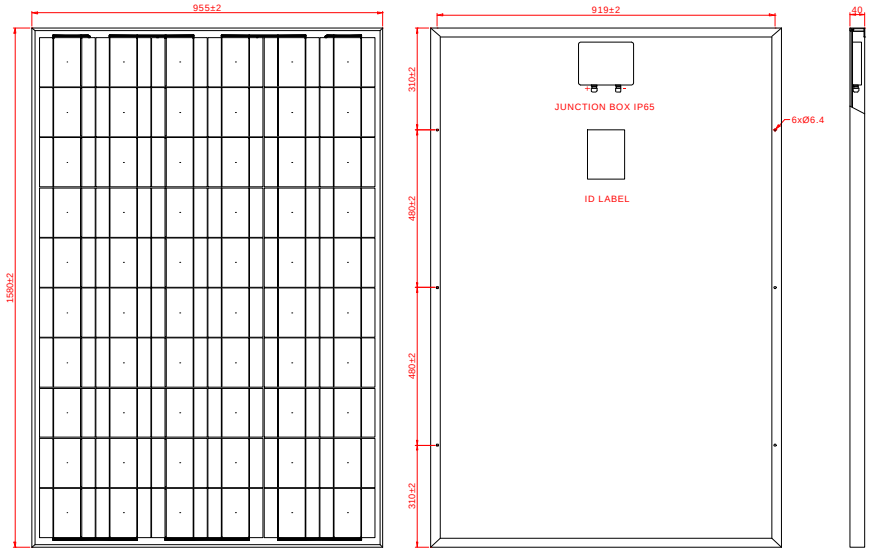
Nominal Operation Cell Temperature	NOCT	43±2 ºC
Power coefficient	T_k (P_n)	-0.43%/ºC
Open circuit voltage	T_k (V_{oc})	-127mV/ºC
Short circuit current	T_k (I_{sc})	+2.2mA/ºC

NOCT Nominal operation cell temperature: Radiation 800W/m^2, ambient temperature 20ºC, wind speed 1 m/s.

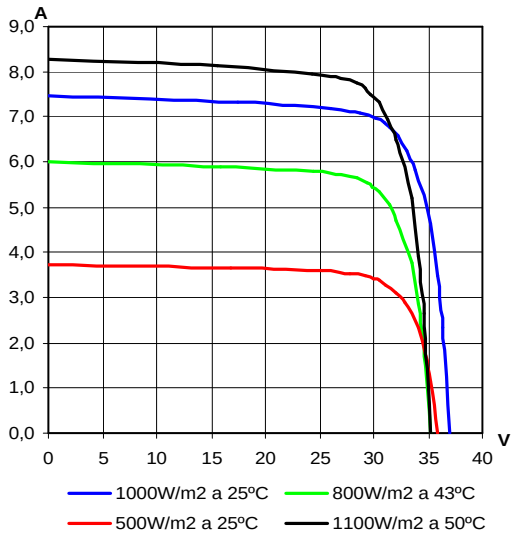
Operation Limits

Maximum system voltage	750 V_{dc}
Operation temperature	-40ºC a +85ºC
Wind resistance	200 km/h
Hailstone max. diameter	25 mm
Hailstone speed impact	23 m/s

Module plan



I-V characteristics, radiation and cell temperature



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