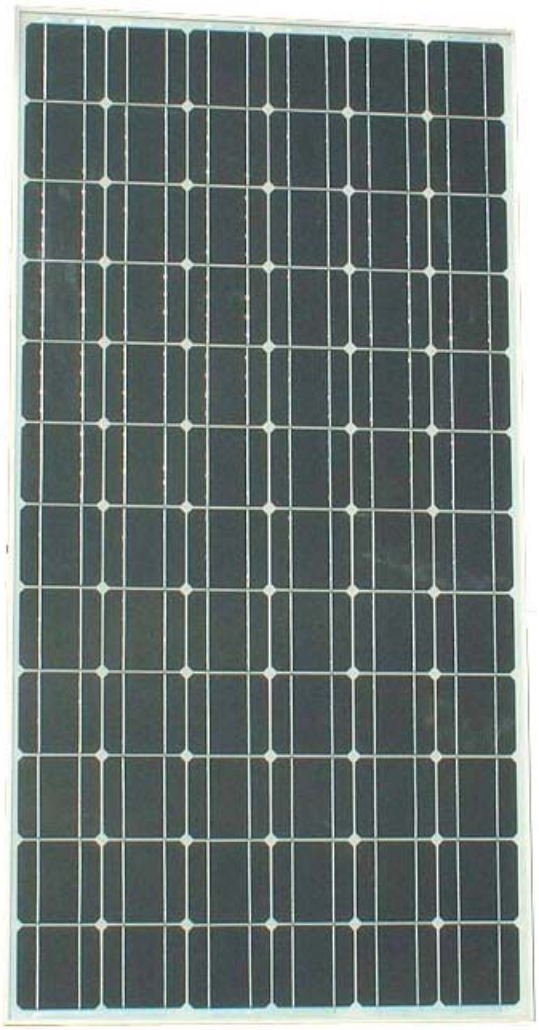
SLK72M5



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 can supply its modules with a 10 years limited warranty on 90% of the power output and 25 years on 80%.

Manufacturing

The used solar cells are kept in place by several layers of EVA behind 3.2mm thick tempered glass. High efficiency monocrystalline 125x125 mm^2 cells with antireflection coating are 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

We offer several types of junction Boxes, depending on your needs and request. Modules can be assembled with junction box from Spelsberg, including cables and Multi Contact Connectors for an easy-handling installation. Besides we offer Tyco junction box with anti-error + and – connector. It is possible to connect cables up to 6 mm^2 (AWG 8). Including bypass diodes, these can be replaced easily. Both systems do not use welded junctions, to minimise possible welding errors.

Certification

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

Models Type SLK72M5

SLK72M5-167Wp-24V
SLK72M5-180Wp-24V
SLK72M5-184Wp-24V

Electrical Data

Power max. (±5%)	P_{mpp}	176 Wp	180 Wp	184 Wp
Voltage mpp	U_{mpp}	36.6 V	36.8 V	36.9 V
Current mpp	I_{mpp}	4.81 A	4.89 A	4.99 A
Open circuit voltage	U_{oc}	44.4 V	44.4 V	44.5 V
Short circuit current	I_{sc}	5.48 A	5.48 A	5.49 A

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

Nominal Operation Cell Temperature	NOCT	47±2 ºC	47±2 ºC	47±2 ºC
Power Coefficient	T_k (P_n)	-0.34 %/ºC	-0.34 %/ºC	-0.34 %/ºC
Open circuit voltage	T_k (V_{oc})	-158.4 mV/ºC	-158.4 mV/ºC	-158.4 mV/ºC
Short circuit current	T_k (I_{sc})	+1.6 mA/ºC	+1.6 mA/ºC	+1.6 mA/ºC

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

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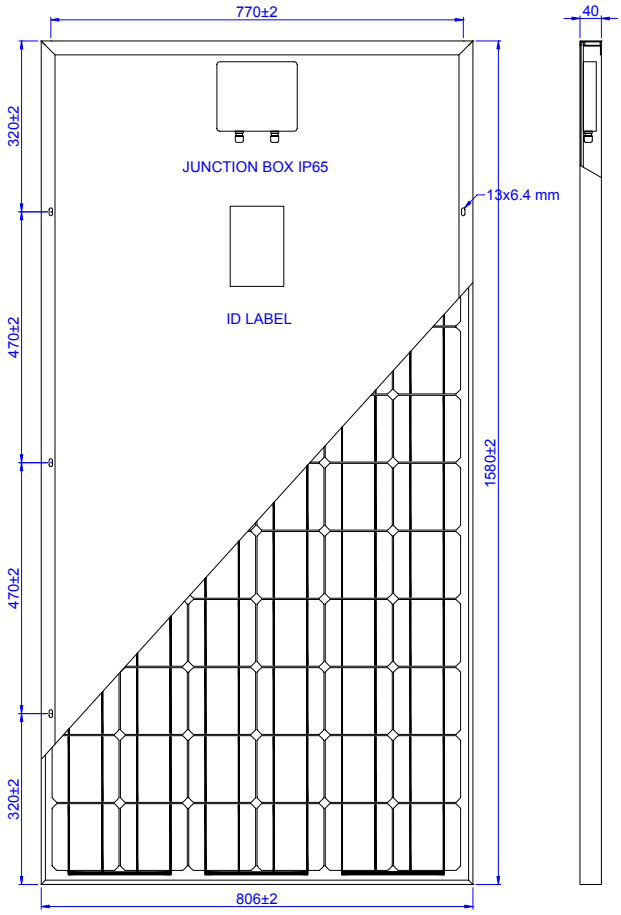
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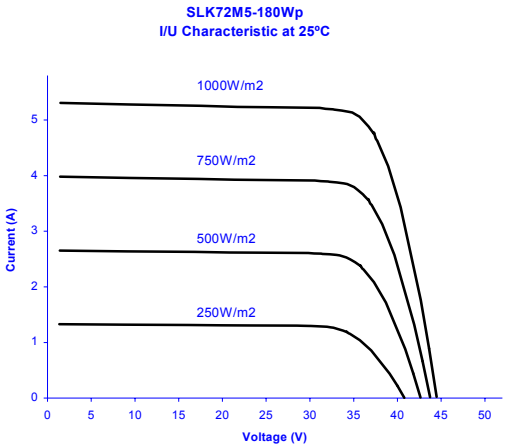
SLK72M5

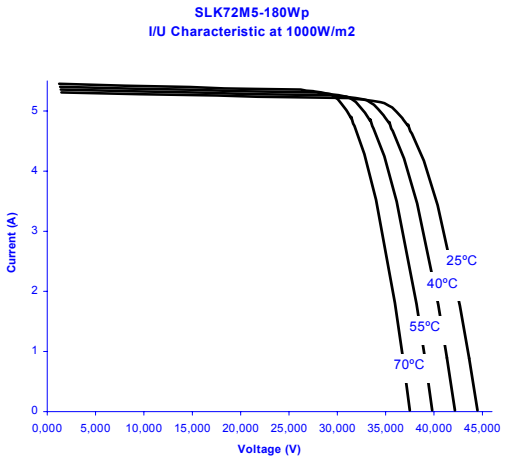
Dimensions and operation limits

Dimensions (Tolerance ±2mm)	806x1580 mm^2
Thickness with frame, including junction box	40 mm
Weight	15.5 kg
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







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