SLK88P5



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 polycrystalline 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 SLK80P5

SLK80P5-185Wp-40Vmpp

Electrical Data

Power max. (±5%)	P_{mpp}	185 Wp
Voltage mpp	U_{mpp}	40.4 V
Current mpp	I_{mpp}	4.58 A
Open circuit voltage	U_{oc}	49.3 V
Short circuit current	I_{sc}	4.84 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	46±2 ºC
Power Coefficient	$T_k (P_n)$	-0.37%/ºC
Open circuit voltage	$T_k (V_{oc})$	-160 mV/ºC
Short circuit current	$T_k (I_{sc})$	+3.13 mA/ºC

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

Siliken S.L.
Massamagrell, 40 - P.I. L'Horteta
E-46138 Rafelbunyol - Valencia – Spain
Tel.: 0034-96 141 22 33
Fax.: 0034-96 141 05 14
info@siliken.com – www.siliken.com

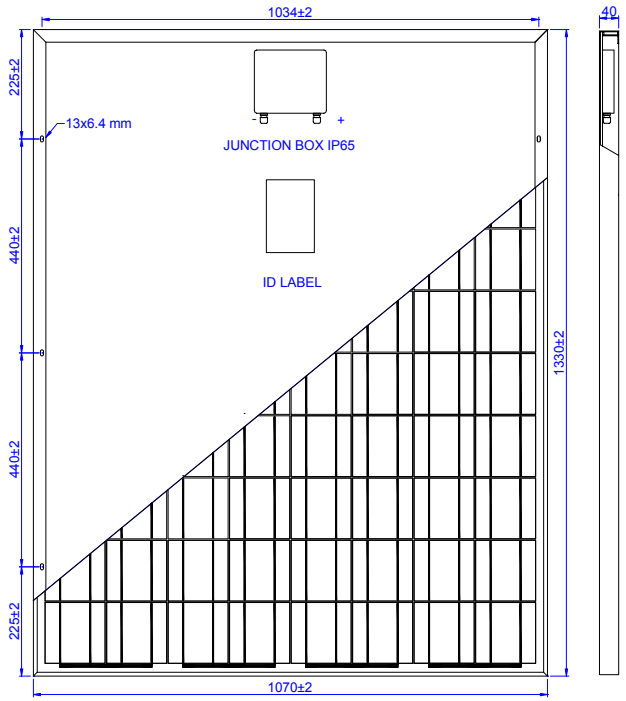
Rev. 16-07-04

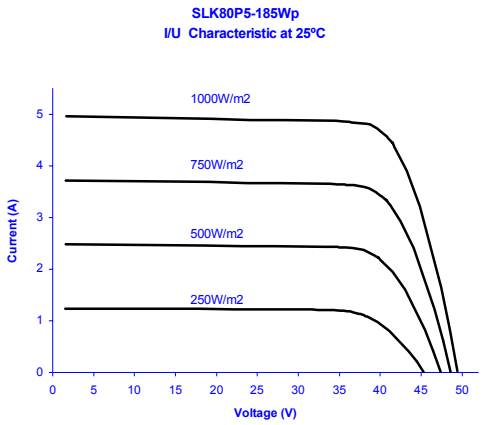
SLK88P5

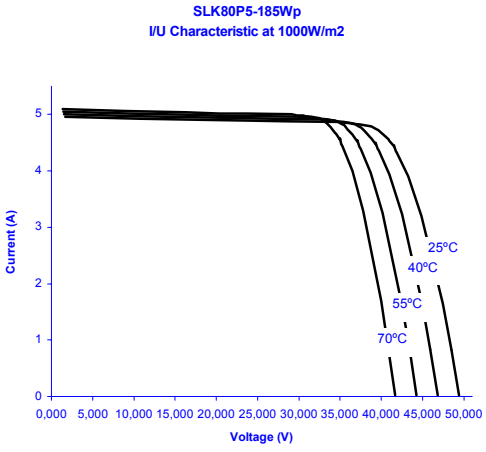
Dimensions and operation limits

Dimensions (Tolerance ±2mm)	1070x1330 mm^2
Thickness with frame, including junction box	40 mm
Weight	19 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







Siliken S.L.
Massamagrell, 40 - P.I. L'Horteta
E-46138 Rafelbunyol - Valencia – Spain
Tel.: 0034-96 141 22 33
Fax.: 0034-96 141 05 14
info@siliken.com – www.siliken.com

Rev. 16-07-04