

## Solarmodule

# Project 410 Wp mono halfcut



A brand of  
**SONENKRAFT**

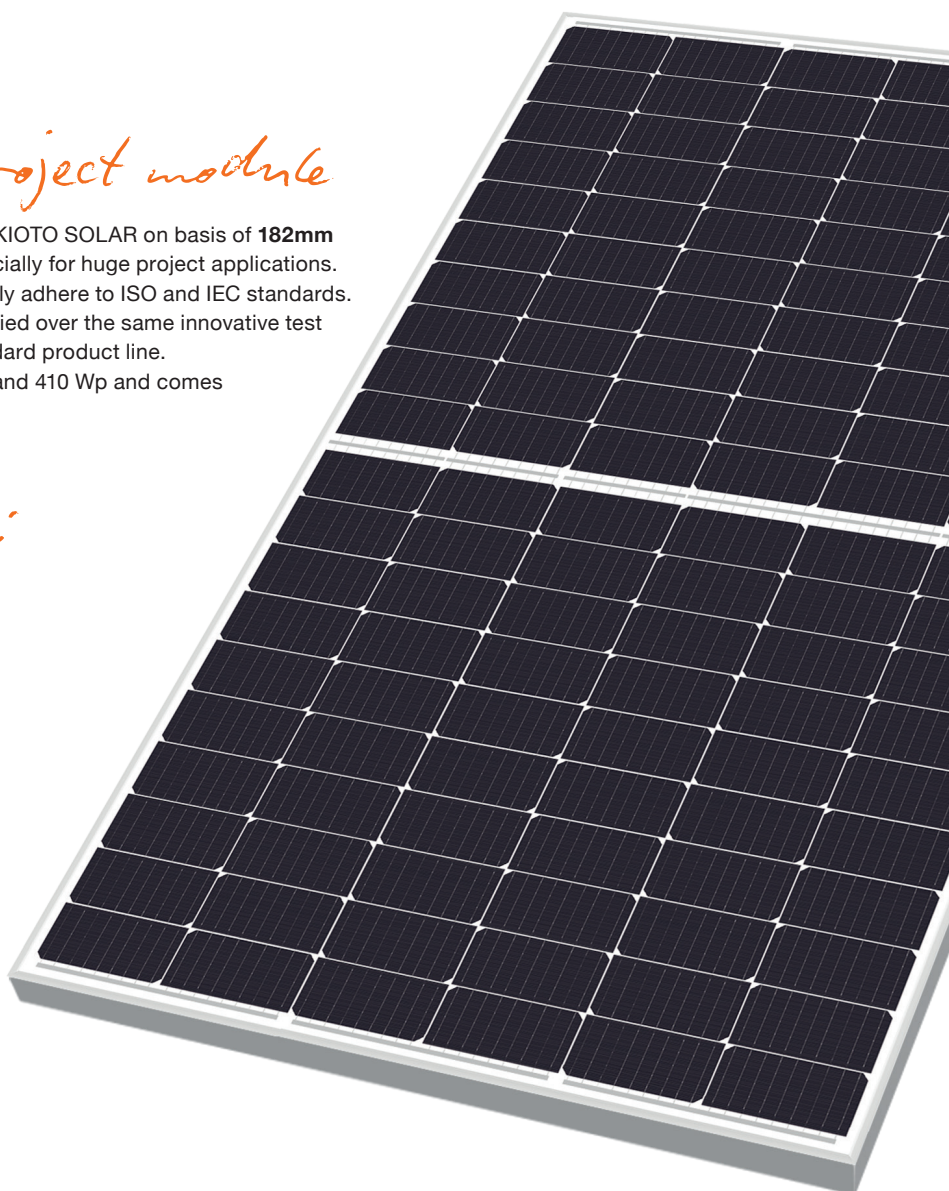
### *EFFICIENT! The project module*

The PROJECT photovoltaic module series from KIOTO SOLAR on basis of **182mm** solar cells is a cost – optimized alternative especially for huge project applications. Only selected components are used which strictly adhere to ISO and IEC standards. All electrical and mechanical tolerances are verified over the same innovative test procedures and therefore identically to the standard product line.

The PROJECT module is available with 380 Wp and 410 Wp and comes with aluminium frame and bevel cut edges.

### *Product advantages:*

- // Optimized module connection regarding shading
- // Use of PID-resistant module components
- // Product warranty of 12 years and a linear performance warranty for 25 years
- // Use of high quality components from nameable deliverers
- // Stable frame concept for technical safety and homogeneous design
- // Optimized weak light behaviour



## PROJECT

# KPV ME NEC 410 Wp Project HC

## Module specification

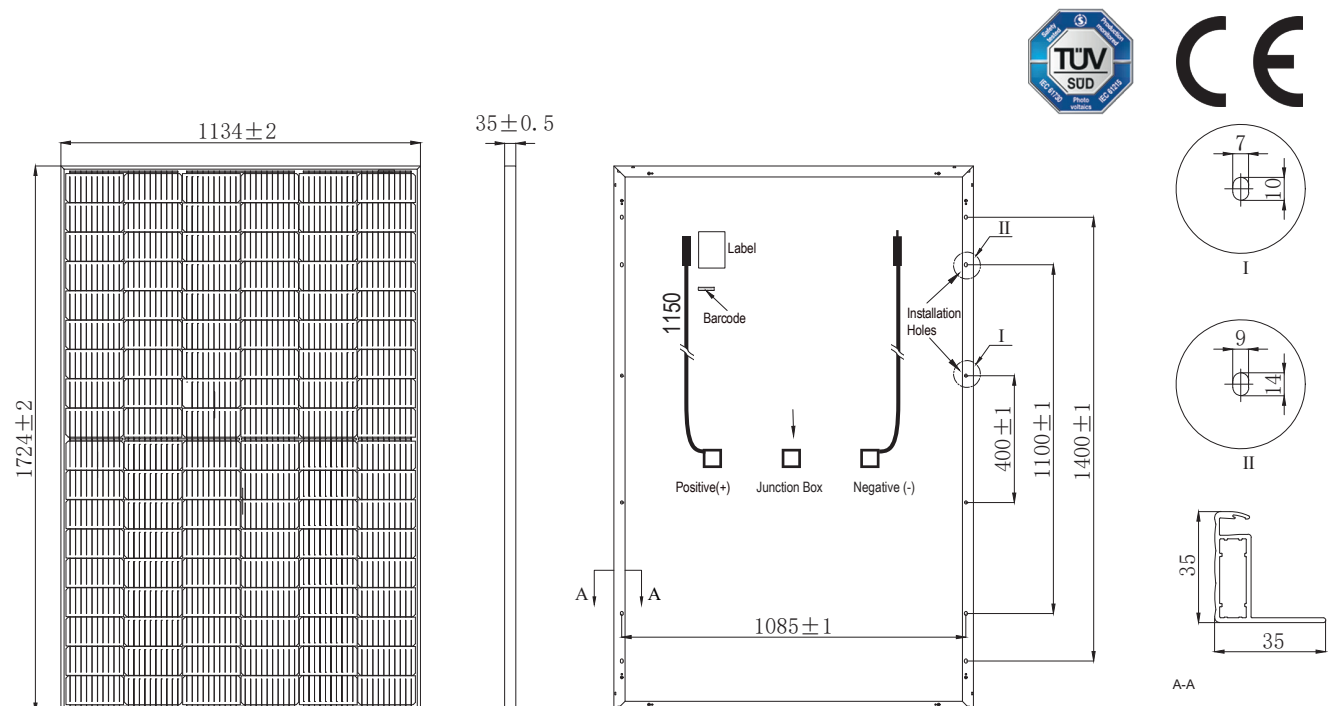
	P <sub>mp</sub> [W <sub>p</sub> ]	U <sub>mp</sub> [V]	I <sub>mp</sub> [A]	U <sub>oc</sub> [V]	I <sub>sc</sub> [A]	efficiency rate	area per kWp
410 Wp Project HC	410 Wp	31,30 V	13,10 A	37,26 V	13,79 A	20,97%	4,77 m <sup>2</sup>

## Electrical data

<b>120 crystalline cells</b>	182 x 91 mm
<b>Connecting System</b>	Original Stäubli MC4 EVO2 connectors
<b>Max. system voltage</b>	1500V DC
<b>Power tolerance</b>	(+ 5W / - 0 W) Measurement: STC (standard test conditions)
<b>Temperature coefficients</b>	mono halfcut: P <sub>mp</sub> -0,350%/K U <sub>oc</sub> -0,270%/K I <sub>sc</sub> +0,048%/K
<b>Max. reverse over current</b>	15A
<b>Operation temperature</b>	+85°C up to -40°C
<b>Cable length</b>	2x 1150 mm
<b>Bypass diodes</b>	3 pcs.
<b>Efficiency guarantee</b>	min. 97 % in the first year, afterwards a reduction of 0,7% p.a. - up to 25 years
<b>Product guarantee</b>	12 years

## Technical data

<b>Size</b>	1724 mm x 1134 mm x 35 (+/- 3 mm)
<b>Weight</b>	22,00 kg
<b>Glass specification</b>	3,2mm ESG – solar glass with anti-reflex coating (solar transmittance AM1,5 min. 94%)
<b>Test certificate</b>	IEC 61215, Ed. 2 incl. mechanical load test up to 5400 Pa, IEC 61730 by TÜV Süd
<b>Extended certificates</b>	High salt mist and ammonium resistance, certified by TÜV Nord
<b>Packaging</b>	868 modules/truck (31 + 31 modules per storage position)



The customer carries the sole responsibility the goods ordered and delivered are suitable for his purposes. Application advices, whether verbal, in writing or by making tests are conducted to the best of KIOTO Photovoltaics GmbH's knowledge, whether verbal, in writing or by way of trials or otherwise, is provided to the best of our knowledge, but without any guarantee or liability. Special technical constructions may be subject to official approval. The constructor or the client is responsible for obtaining such official approval. The customer must bear any costs caused by changes or alterations because of special technical constructions, especially for tests or calculations. A project-related, static pre-dimensioning as well as the correct use of the glasses was not carried out or tested by us.

Measurement tolerance ±3%