

## Plug-In Module

KIOTO  
SOLAR

# Mein Kraftwerk / Sonnenkraftwerk 290/300 Wp mono

*CLEVER!  
The mini power plant*

The easy solution for everybody who wants to produce free power from the sun but doesn't have much space available. The "Mein-Kraftwerk" module with integrated micro inverter is a Plug & Play solution that delivers power as soon as it is connected to the grid. Also suitable for bigger on-roof applications.

### *Advantages:*

- // Plug & Play solution. Unpack – assemble – plug in:  
no additional wiring efforts
- // Every module has an output of up to 320 kWh per year  
(average Central Europe)
- // Micro inverter already integrated,  
no external inverter necessary
- // Easy access to the power grid
- // Also suitable for bigger on-roof applications



MEIN KRAFTWERK / SONNENKRAFTWERK

# KPV ME NEC 290 Wp mono

# KPV ME NEC 300 Wp mono

## Module specifications

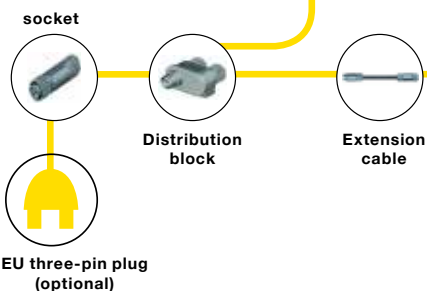
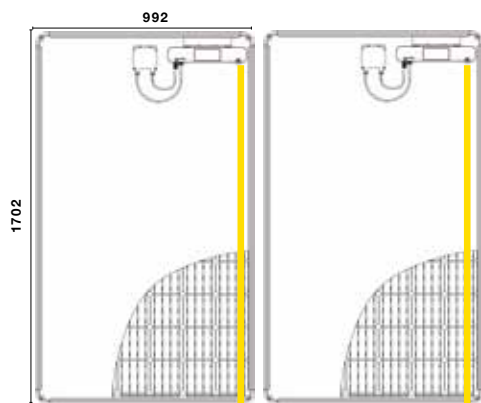
Type	Pmpp <sub>[Wp]</sub>	Ump <sub>[V]</sub>	Impp <sub>[A]</sub>	Uoc <sub>[V]</sub>	Isc <sub>[A]</sub>	efficiency rate	area per kWp
290 mono PERC	290Wp	31,99V	9,07A	38,12V	9,55A	17,18%	5,82m <sup>2</sup>
300 mono	300Wp	32,68V	9,18A	39,36V	9,65A	18,15%	5,82m <sup>2</sup>

## Electrical data

<b>60 crystalline cells</b>	156mm x 156mm
<b>Max. system voltage</b>	1000V DC
<b>Power tolerance</b>	(+5W/-0W) Measurement: STC (standard test conditions)
<b>Temperature coefficients</b>	mono: Pmpp -0,37%/K    Uoc -90,7mV/K    Isc +2,85mA/K
<b>Max. reverse over current</b>	15A
<b>Operating temperature</b>	+85°C up to -40°C
<b>Bypass diodes</b>	3 pcs. Tyco SL1515
<b>Product guarantee</b>	5 years

## Technical data

<b>incl. aluminium frame</b>	1702 mm x 992 mm x 40 mm (+/- 2 mm)
<b>Weight</b>	23 kg
<b>Glass specification</b>	Solar glass ESG 3,2 mm with high-strength antireflective coating and design print
<b>Encapsulation material</b>	STRE
<b>Backside material</b>	3-layer foil material
<b>Certificates micro inverter</b>	IEC 62109-1, IEC 62109-2, IEC 55011B, EN 50178, IEC 62103, EMV: EN 61000-6-2, EN 61000-6-3
<b>Extended hail test</b>	Grainsize 25 mm, max. velocity of 46 m/s (165,6 km/h) and Grainsize 55 mm, max. velocity of 33,5 m/s (120,6 km/h)
<b>Packaging</b>	Single packaging



**Integrated micro inverter**  
The integrated micro inverter ensures the right voltage and current frequency of the delivered power, which is used by the household devices.



**Accessories (optionally available)**  
 // Pitched roof mounting system  
 // Mounting system wall  
 // Cable set for 1 module incl. three-pin plug (3m)  
 // AC wiring for connecting more modules



The customer carries the sole responsibility the 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 of ficial 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%