

# Allround-Module 60 cells

Glass-foil module for ambitious customers

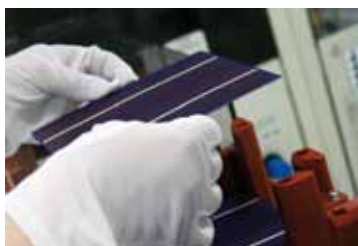


## Product overview

## Mono crystalline

## Poly crystalline

Max. power P <sub>mp</sub> [Wp]	280    285    290	260    265    270
Dimension L x W x H [mm]	1668 x 994 x 40,5	1668 x 994 x 40,5
Weight [kg]	21	21



## Product advantages

- Designed and developed without compromises
- Only 4 mm solar glass with AR - Coating
- Extremely solid aluminium frame
- Certified up to 8000 Pa / m<sup>2</sup> snow load
- Use of selected European high quality products guarantees high durability
- Quality standard: IEC 61215 and IEC 61730
- Positive performance tolerance up to +3%
- 10 years performance warranty 90%
- 25 years performance warranty 80%
- 10 years product warranty

**Also available with 48 / 72 cells.**

**Also available in „Full black edition“.**



## Electrical Data

### Mono crystalline

### Poly crystalline

		Mono crystalline						Poly crystalline					
		STC*			800W/m <sup>2</sup> NOCT**			STC*			800W/m <sup>2</sup> NOCT**		
Max. power P <sub>mp</sub>	[Wp]	280	285	290	203	207	210	260	265	270	192	192	199
Voltage at P <sub>mp</sub>	[V]	31,82	32,18	32,26	28,52	28,84	28,91	32,14	32,21	32,51	29,27	29,33	29,61
Current at P <sub>mp</sub>	[A]	8,80	8,86	8,99	7,12	7,16	7,27	8,09	8,23	8,31	6,55	6,66	6,72
Open circuit voltage	[V]	38,34	38,46	38,64	35,13	35,24	35,40	38,34	38,46	38,46	35,58	35,69	35,69
Short circuit current	[A]	9,36	9,37	9,46	7,57	7,58	7,68	8,57	8,71	8,80	6,93	7,05	7,12
Module efficiency	[%]	16,8	17,1	17,4				15,5	15,8	16,1			

\*standard testing conditions (STC): 1,000W/m<sup>2</sup> - AM 1.5 - 25 °C // \*\* 800W/m<sup>2</sup> - AM 1.5 - NOCT  
Minor reduction in efficiency under partial load conditions: at 200W/m<sup>2</sup> 95% of the STC efficiency (1,000W/m<sup>2</sup>) is achieved.

## Thermal characteristics / temperature coefficient

### Mono crystalline

### Poly crystalline

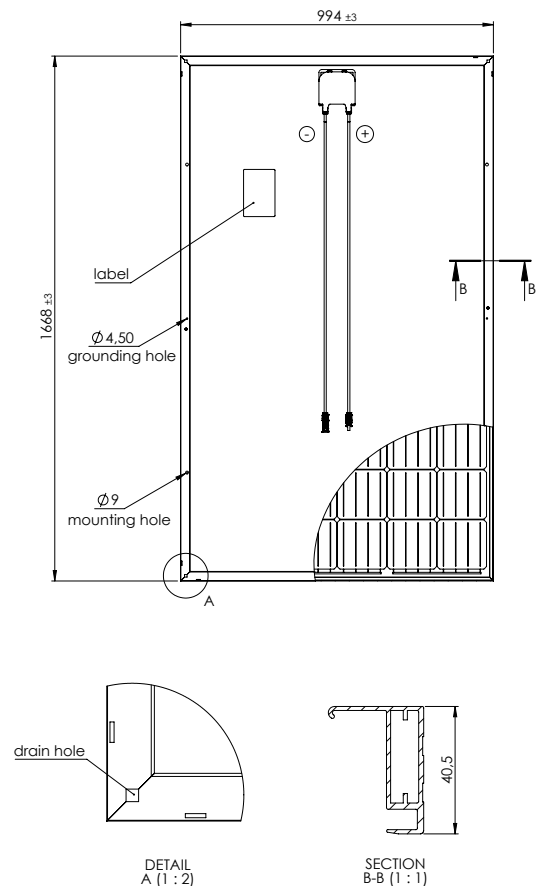
TK P	[%/K]	-0,42	-0,41
TK Voc	[%/K]	-0,32	-0,31
TK Isc	[%/K]	0,047	0,057
NOCT	[°C]	47 ±2	44 ±2

## Additional data

### Mono- & poly crystalline

Plus sorting	-0% to +3%
Max. mechanical load	8000 N/m <sup>2</sup>
Snow load	815 kg/m <sup>2</sup>
Max. system voltage	1000 V
Safety class	II
Max. reverse current	15 A
Junction box	Tyco
Bypass diodes	3 type Schottky
Protection class junction box	IP 67
Cable length/width	1000 mm / 4 mm <sup>2</sup>
Junction box connection	Tyco PV 4 / MC4 compatible
Operating temperature	-40°C ~ +85°C
Cells	156 x 156 poly / mono
Solar glass	3,9 mm
Frame	Anodized aluminium

Measurement tolerance P<sub>max</sub> ±3 %



This datasheet is not legally binding. Actual specifications and/or product features may vary. PVP Photovoltaik reserves the right to make changes to specifications without notice. Caution: Read the safety and installation instructions before using the product. The currently valid warranty/guarantee declaration and the general delivery terms and conditions are part of this datasheet. Further details can be found on our website ([www.pvp.co.at](http://www.pvp.co.at)). This data sheet complies with the requirements of EN50380.