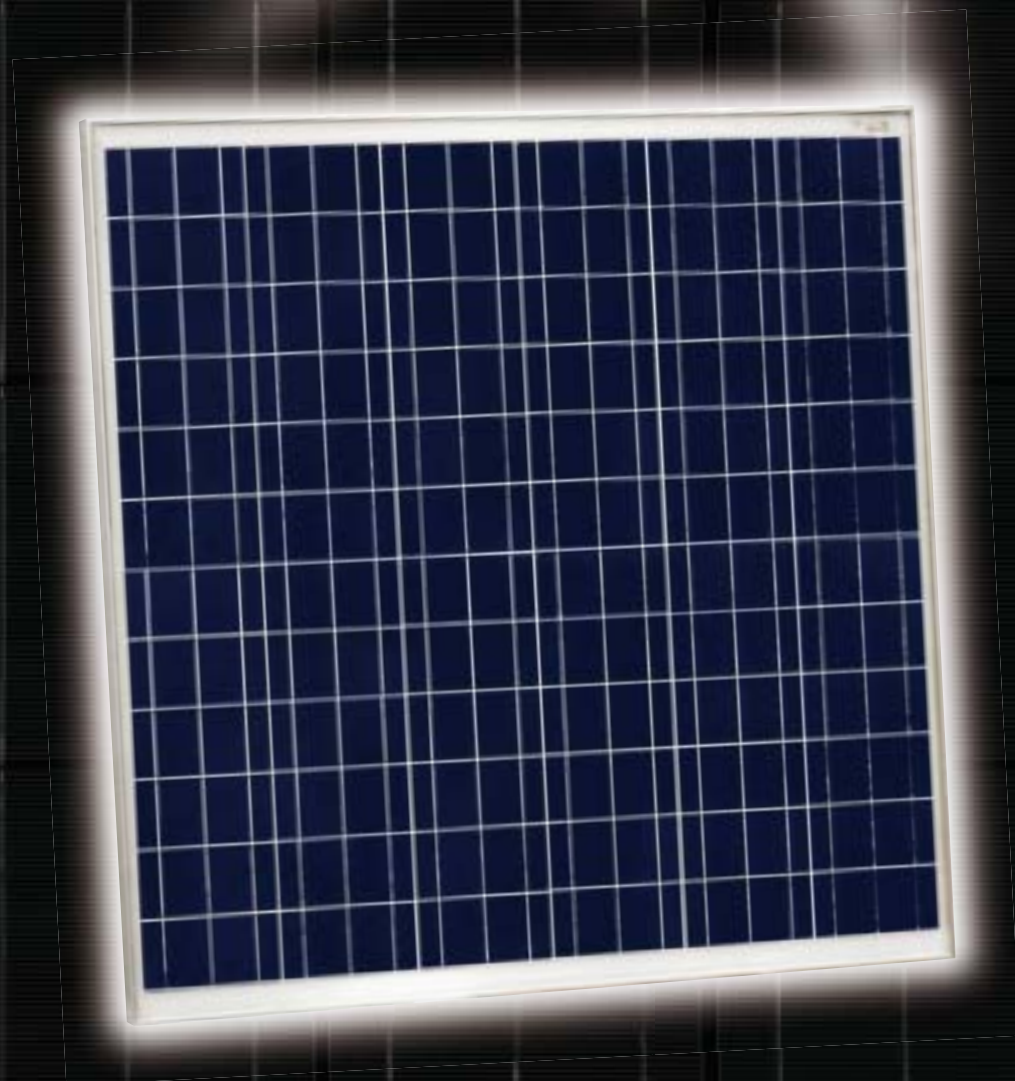


Photovoltaic Module  
**ES 125-150 P72**



**More  
Efficiency  
More  
Reliability**



# Photovoltaic Module

## ES 125-150 P72



### Electrical Data at 1000 W/m<sup>2</sup>, 25 °C and AM 1.5 (STC in Accordance with EN 60904-3)

rated power at STC <sup>1</sup>	125 Wp	150 Wp
module efficiency at STC <sup>2</sup>	13.3%	11.3 %
open-circuit voltage V <sub>oc</sub>	43.20 V	43.42 V
short-circuit current I <sub>sc</sub>	3.73 A	4.48 A
rated voltage V <sub>mpp</sub>	35.64 V	35.82 V
rated current I <sub>mpp</sub>	3.55 A	4.26 A

<sup>1</sup> The measurement tolerance of the rated power is ± 3%.

<sup>2</sup> At low irradiance (200 W/m<sup>2</sup>, 25 °C and AM 1.5) the module yields at least 97% of the STC efficiency.

### Electrical Data at 800 W/m<sup>2</sup>, NOCT, 1m/s Wind Speed and AM 1.5

rated power P <sub>max</sub>	101.3 W	121.5 W
open-circuit voltage V <sub>oc</sub>	42.79 V	43.01 V
short-circuit current I <sub>sc</sub>	3.00 A	3.60 A
rated voltage V <sub>mpp</sub>	35.77 V	35.95 V
rated current I <sub>mpp</sub>	2.86 A	3.44 A

### Thermal Data

temperature coefficient open-circuit voltage	- 0.34%/K
temperature coefficient short-circuit current	+0.05%/K
temperature coefficient rated power	- 0.43%/K
noct (normal operating cell temperature)	48 °C ± 2K

### Mechanical Data

number of cells and cell type	72 polycrystalline solar cells	
module dimensions: length (a) x width (b)	988 x 952 mm	1340 x 991 mm
mounting dimensions: length (c) x width (d)	956 x 635 mm	949 x 491 mm
weight	14.0 kg	18.0 kg
frame thickness	35 mm anodized aluminum	
front glass	3.2 mm high transmission, tempered glass	
embedding	EVA	
back sheet	composite film, white	
junction box	plastic, protection class IP 65	
number of bypass diodes	3	
cables	no	

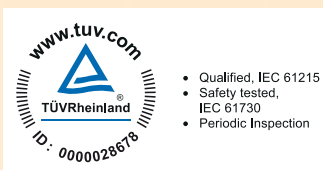
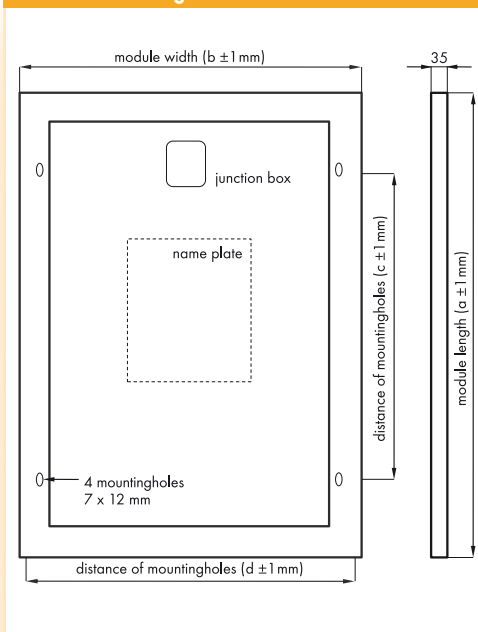
### Permissible Operating Conditions

operating temperature range	- 40 °C to 85 °C
max. system voltage	600 V DC
max. reverse current	10 A
maximum surface load capacity	5400 Pa or 550 kg/m <sup>2</sup>
resistance against hail	maximum diameter of 24 mm with impact speed of 83 km/h
protection class	II

### Warranty and Certificates

product warranty	5 years
performance warranty	90% up to 10 years
certifications	IEC 61215 Ed. II, IEC 61730 ISO 9001, ISO 14001

### Technical Drawing – All Dimensions in mm



Your Retailer:

Datasheet according to EN 50380.