

# SONNENSTÄRKE

SONNENSTÄRKE uses the latest German technology in all manufacturing processes, and premium certified materials from top manufacturers in the world, to ensure exceptional module quality, and high reliability. All modules undergo a profound testing processes, and assembled by highly trained, and passionate, professionals.

## KEY FEATURES



### Positive tolerance

+5w tolerance which generates higher output authenticity



### PID Resistant

Anti-PID materials lead/ contribute to limited power degradation



### Severe weather resilience

Certified to withstand wind load (2400 Pascal) and snow load (5400 Pascal)



### Withstanding extreme environmental conditions

High salt mist and ammonia resistance according to IEC standard



### Competent quality control management

In-house testing modules using electroluminescent (EL) and High Voltage. Certified factory: ISO9001-2015 Quality management system.

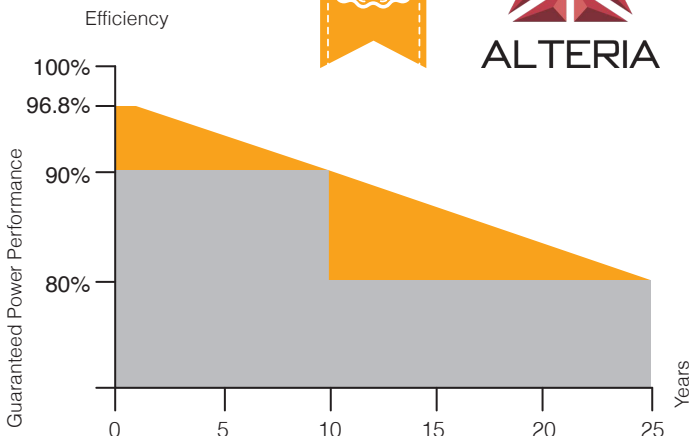
## LINEAR PERFORMANCE WARRANTY

10 years product warranty 25 years linear power performance warranty

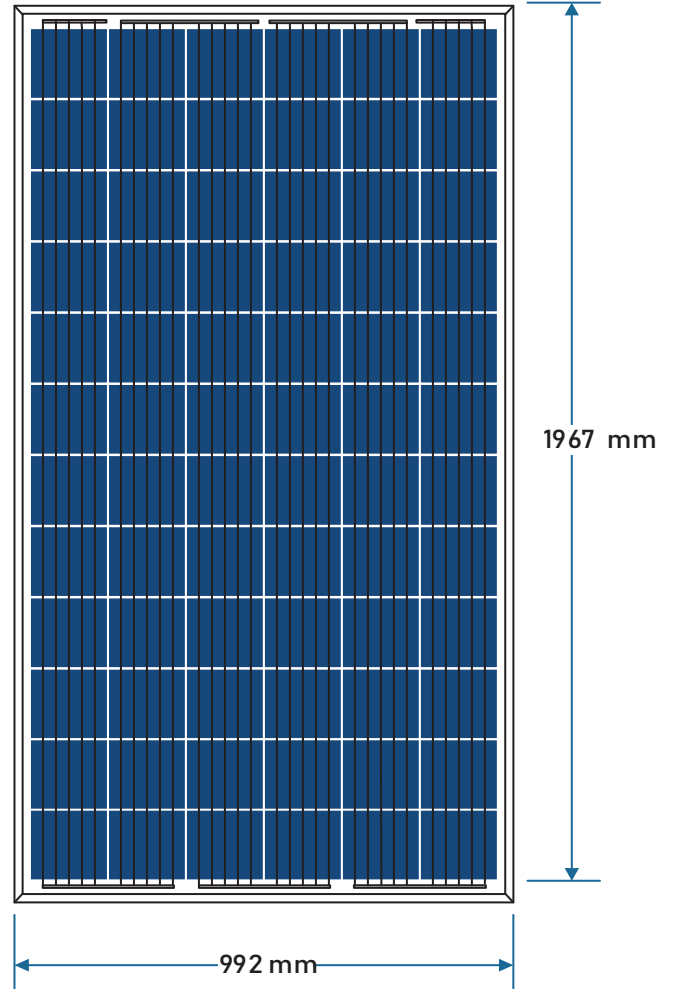
- Linear Performance Warranty
- Standard Performance Warranty



GUARANTEED BY



## SONMP-72F-HV



## POLY CELLS

### 345-355W

power output range

### UP TO 18.19%

Maximum Efficiency

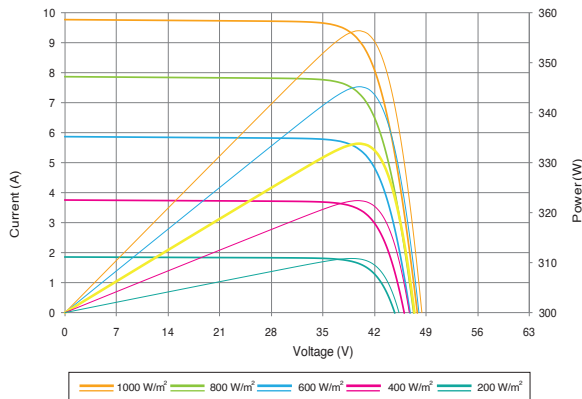
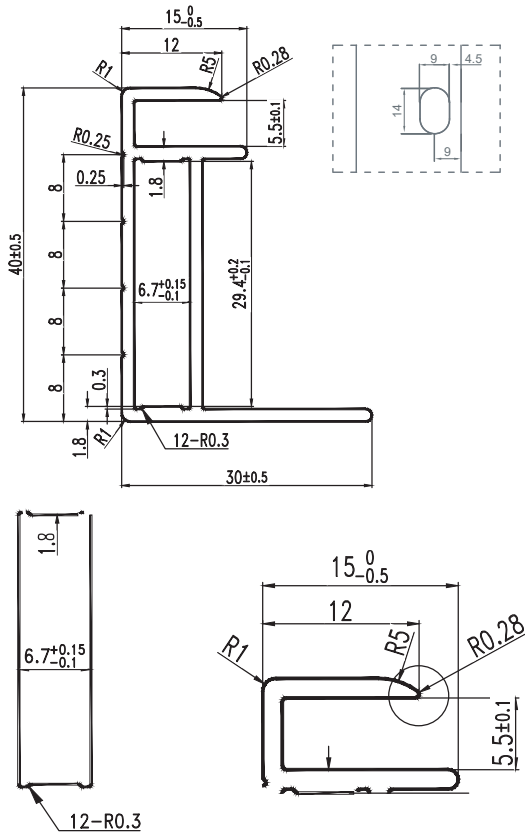
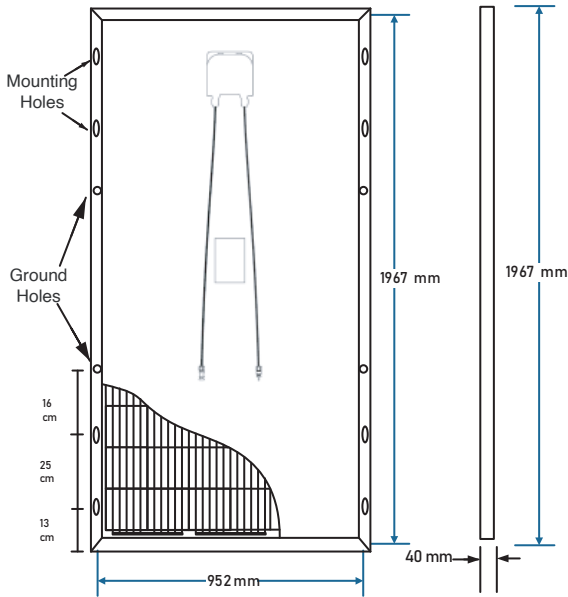
### 72 CELLS

## PRODUCT CERTIFICATES

- IEC 61215:2005
- IEC 61730-1:2004
- IEC 61730-1:2004/AMD1:2011
- IEC 61730-1:2004/AMD2:2013
- IEC 61730-2:2004
- IEC 61730-2:2004/AMD1:2011



## Technical Specification



## Electrical Data under STC

(Standard Test Conditions: 1000 W/m<sup>2</sup>, 25 °C, AM 1.5)

Output Power (Pmax)	345 Wp	350 Wp	355 Wp
Voltage (Vmpp)	38.43 V	38.63 V	38.83 V
Current (Impp)	8.98 A	9.07 A	9.16 A
Open Circuit Voltage (Voc)	46.20 V	46.40 V	46.70 V
Short Circuit Current (Isc)	9.24 A	9.32 A	9.40 A
Efficiencies	17.68%	17.94%	18.19%

## Electrical Data at 800 W/m<sup>2</sup>, NOCT (20°C +/- 2°C), AM

Output Power (Pmax)	284 Wp	287 Wp	290 Wp
Voltage (Vmpp)	39.06 V	39.36 V	39.66 V
Current (Impp)	7.27 A	7.29 A	7.31 A
Open Circuit Voltage (Voc)	47.58 V	47.78 V	47.98 V
Short Circuit Current (Isc)	7.65 A	7.69 A	7.74 A

## Temperature Data

Power Temperature Coefficient (TC Pmpp)	-0.40 %/°C
Voltage Temperature Coefficient (TC Voc)	-0.39 %/°C
Current Temperature Coefficient (TC Isc)	+0.07 %/°C

## Packaging Specifications

Pallet Dimensions	203 x 113 x 100 cm (L x W x H)
Weight Pallet	ca. 550 kg
Modules per Pallet	26

## Additional Data

Cell Type	Poly-crystalline 156.75x156.75mm
No. of cells	72 (6x12)
Dimensions	1967x992x40mm
Maximum System Voltage	1500 V
Front Glass	3.2mm, Special hardened low-iron glass with anti-reflex coating; glare reduced to a minimum
Frame	Anodized Aluminium Alloy
Module Connection	IP 67 no potting, 2 x approx. 0.95 m solar cable Ø 4 mm <sup>2</sup> , GZX

**Contact Us:** 25A, Ismail Mohamed St., Zamalek, Cairo, Egypt  
www.sonnenstarke.com - info@sonnenstarke.com