

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.

KEYFEATURES



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.

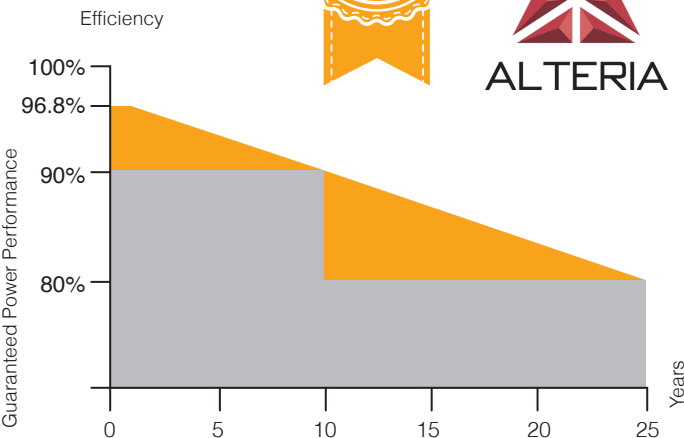
LINEARPERFORMANCE WARRANTY

10 years product warranty 25 yearss linear power performance warranty

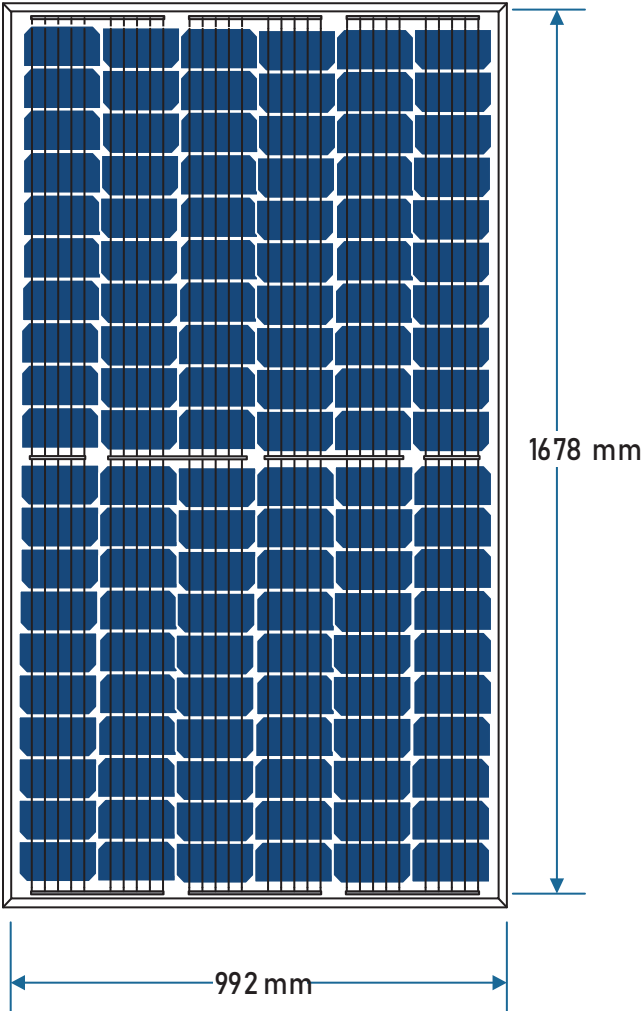
- Linear Performance Warranty
- Standard Performance Warranty



GUARANTEED BY



SONMMP-120H-HV



HALF CUT MONO PERC

320-330W

power outupt range

UP TO 19.82%

Maximum Efficiency

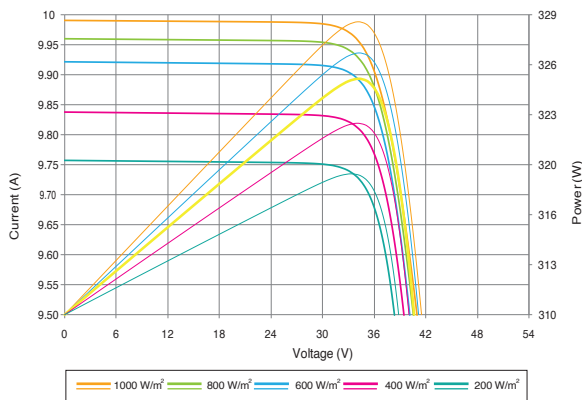
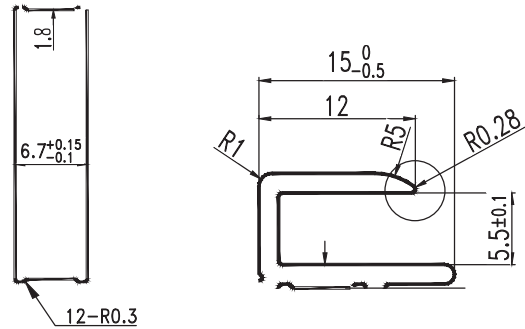
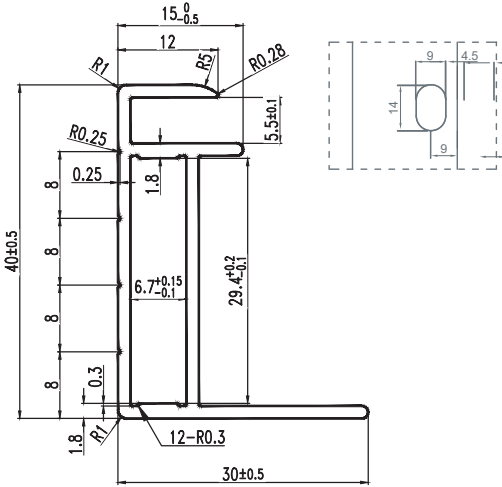
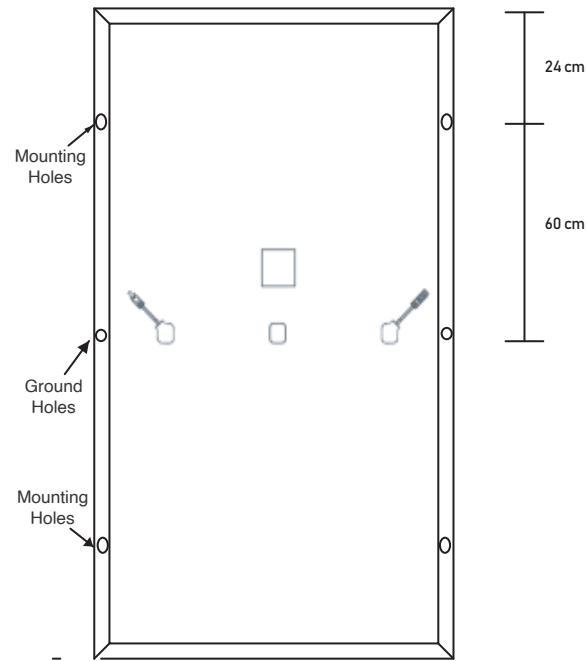
120 HALF CUT CELL

PRODUCTCERTIFICATES

- 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/m², 25 °C, AM 1.5)

Output Power (Pmax)	320 Wp	325 Wp	330 Wp
Voltage (Vmpp)	34.94 V	35.04 V	35.14 V
Current (Impp)	9.16 A	9.28 A	9.40 A
Open Circuit Voltage (Voc)	40.47 V	40.57 V	40.67 V
Short Circuit Current (Isc)	9.76 A	9.86 A	9.96 A
Efficiencies	19.22%	19.52%	19.82%

Electrical Data at 800 W/m², NOCT (20°C +/- 2°C), AM

Output Power (Pmax)	259 Wp	263 Wp	267 Wp
Voltage (Vmpp)	29.40 V	29.50 V	29.60 V
Current (Impp)	8.80 A	8.91 A	9.02 A
Open Circuit Voltage (Voc)	35.90 V	36.10 V	36.30 V
Short Circuit Current (Isc)	9.40 A	9.51 A	9.62 A

Temperature Data

Power Temperature Coefficient (TC Pmpp)	-0.38 %/°C
Voltage Temperature Coefficient (TC Voc)	-0.36 %/°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	Mono Perc 156.75x78.375mm
No.of cells	120 (6x20)
Dimensions	1678x992x40mm
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 ² , GZX

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Teriak Industrial Group, headed by CEO Samir Teriak, established SONNENSTÄRKE in Cairo, Egypt. A leading regional PV manufacturer, SONNENSTÄRKE uses the latest German technology, German machinery, and German expertise in its manufacturing process.