

ES-MONO 390

SE-PERC® Inside Monocrystalline Photovoltaic

ES-MONO series superhigh efficiency modules adopt advanced SE-PERC (Passivated Emmitter Rear Contact technology). Its higher conversion efficiency and better anti-PID performance bring installers the maximize power yield per unit area. They can meet your very strict requirement on quality and efficiency of modules.



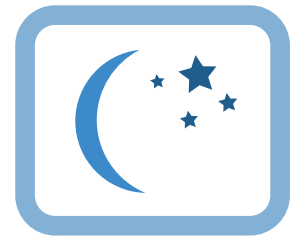
ISO 9001:2015
& ISO 14001:2015
management systems



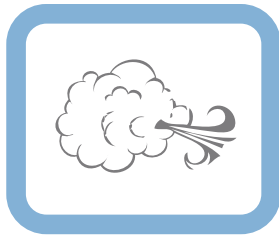
IEC 61215
& IEC 61730
standard quality



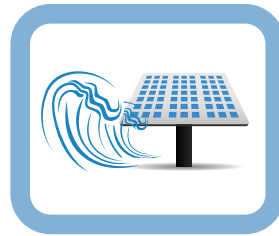
0 - 3 W positive
power sorting



Stable performance
under weak light conditions



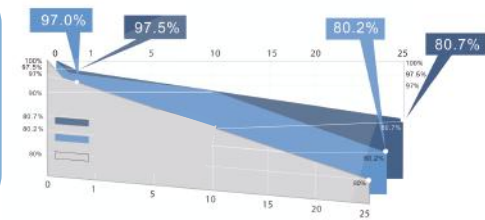
Wind load up to
3800 Pa
Snow load up to 5400 Pa



Salt mist and
ammonia corrosion
tests passed



25-year performance
warranty
10-year product
warranty



▶ Electrical Characteristics

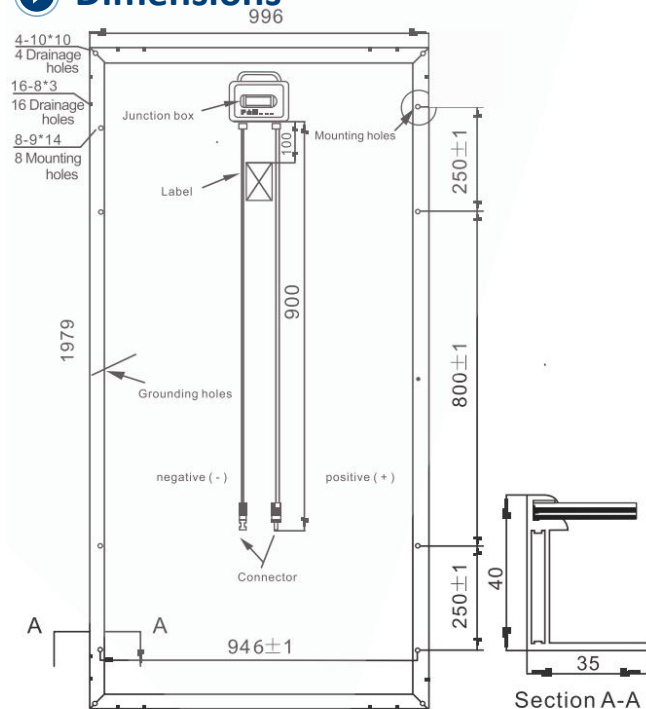
STC	ES-MONO 390
Optimum Operating Voltage (Vmp)	40.11V
Optimum Operating Current (Imp)	9.72 A
Open Circuit Voltage (Voc)	48.94 V
Short Circuit Current (Isc)	10.24A
Maximum Power at STC (Pmax)	390 W
Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500 V DC (IEC) 1000 V DC (UL)
Maximum Series Fuse Rating	20 A
Power Tolerance	0/+3 W
Module Efficiency	19.36%

STC: Irradiance 1000 W/m², module temperature 25°C, AM=1.5;
Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

▶ Mechanical Characteristics

	ES-MONO 390
Solar Cell	156*156 mm (6 inches)
Nr. of Cells	72 (6x12)
Dimensions	1979 * 996 * 40 mm
Weight	23.0 kg
Front	Glass 3.2 mm tempered glass
Frame	Anodized aluminum
Junction Box	IP67/IP68 rated (5 bypass diodes)
Output Cables	4.0 mm ² , (-) 900mm, (+) 900mm Mc4
Mechanical Load Test	5400Pa
Resistance	277g steel ball free fall from 1m height and 60m/s wind
Backsheet	UV Protected

▶ Dimensions



▶ Temperature Characteristics

Nom. Op. Cell Temperature (NOCT)	45° ± 2°C
Temperature Coefficient of Pmax	-0.38 %/°C
Temperature Coefficient of Voc	-0.29 %/°C
Temperature Coefficient of Isc	+0.05 %/°C

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