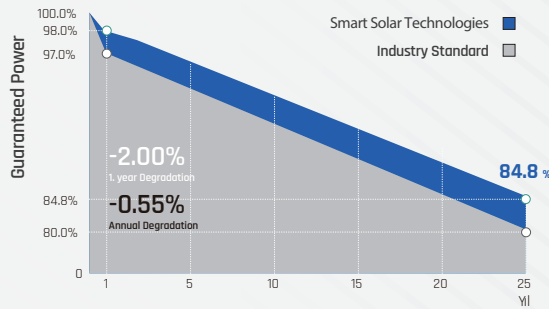
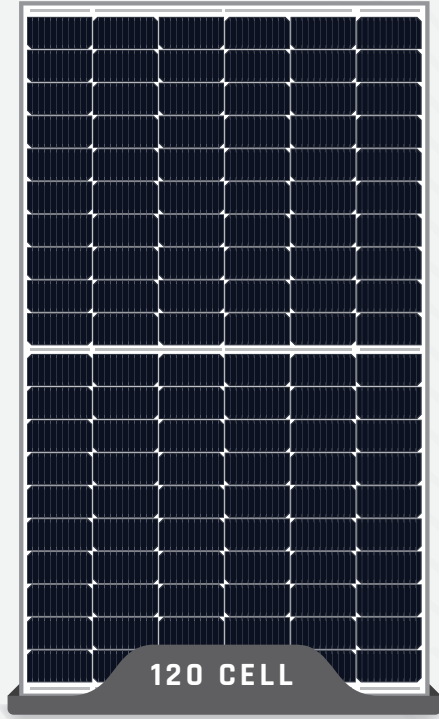




450-470W

Bifacial SmartTwin Module

MonoPerc M10-10BB

Extraordinary Product Performance

- Up to 25% additional power yield benefited from bifacial technology
- Lower power loss in cell connection and under shading conditions
- Competitive high-temperature performance with ameliorated temperature coefficient
- Higher power generation with multi-busbar and half-cut technology

High Quality Reliability

- Optimized electrical design lowers hot spot risk and operating current
- Corrosion resistance guarantees enhanced reliability in harsh environments
- Minimized Risk of microcrack and snail trail

Easy Installation

- Framed design improves mounting and racking method compatibility
- Safer and easier handling during transportation and installation

PID Resistant

- Industry-leading cell processing technology and electrical design ensures solid PID resistance

ELECTRICAL TYPICAL VALUES

Model	SS450M8H-20/UH		SS455M8H-20/UH		SS460M8H-20/UH		SS465M8H-20/UH		SS470M8H-20/UH	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated Powet (Pmpp)	450	339	455	343	460	347	465	350	470	354
Rated Current (Impp)	13,15	10,61	13,24	10,68	13,33	10,75	13,42	10,82	13,51	10,89
Rated Voltage (Vmpp)	34,23	32,56	34,37	32,68	34,51	32,79	34,65	32,90	34,79	33,01
Short Circuit Current (Isc)	13,72	11,06	13,82	11,14	13,92	11,23	14,02	11,31	14,12	11,39
Open Circuit Voltage (Voc)	40,87	38,83	41,02	38,97	41,19	39,13	41,35	39,28	41,51	39,43
Efficiency	20,66%		20,90%		21,12%		21,35%		21,59%	

BIFACIALITY

Maximum Power (Pmax)	489	495	500	506	511
Optimum Operating Current (Impp)	14,29	14,40	14,49	14,60	14,69
Optimum Operating Voltage (Vmpp)	34,23	34,37	34,51	34,65	34,79
Short Circuit Current (Isc)	14,96	15,09	15,18	15,31	15,35
Open Circuit Voltage (Voc)	40,87	41,02	41,17	41,32	41,51

TEMPERATURE RATINGS

Tolerance	0~+5w
NOCT	45±2°C
Voltage Temperature Coefficient	-0.28%/°C
Current Temperature Coefficient	+0.05%/°C
Power Temperature Coefficient	-0.35%/°C
Bifaciality	70±5%

Standart Test Conditions (STC): Irradiance 1000W/m², AM 1.5, Cell Temperatur 25°C

Nominal Operation Cell Temperature (NOCT): Irradiance 800W/m², Ambient Temperatur 20°C, Spectra at AM1.5, Wind 1m/s

ABSOLUTE MAX RATING

Operating Temperature	From -40 to +85°C
Hail Diameter @ 80km/h	Up to 25mm
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Maksimum Series Fuse Rating	25A or 30A
PV Module Classification	II
Fire Rating (IEC61730)	C
Maksimum System Voltage	DC 1500V

MECHANICAL CHARACTERISTICS

Dimension (L × W × H)	Length: 1920mm Width: 1134mm Height: 35mm
Weight	23,6kg
Cell Type	Monocrystalline 182 x 91mm
Front Glass	3.2mm tempered glass
Frame	Anodized aluminium alloy
Cable	4mm² (IEC), (+): 450mm,(-): 250mm or Customized Length *The requested cable length must be specified before the offer.
Junction Box	IP 68 Rated

ELECTRICAL CHARACTERISTIC

