

## 460-480W TOPCON

### Full Black Bifacial Half-Cut 16BB Module



#### SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



#### Higher Power Output

Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.



#### PID Resistance

Excellent Anti- PID performance guarantee via optimized mass-production process and materials control.



#### Enhanced Mechanical Load

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



12  
Year

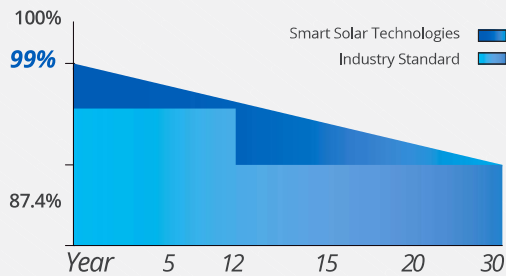
Product  
Warranty



30  
Year

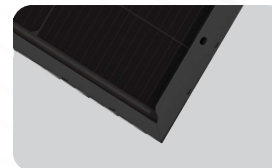
Linear  
Performance  
Warranty

#### Guaranteed Power



#### JUNCTION BOX

Waterproof protection grade:IP68  
Safety Level Class II  
Maximum System Voltage: 1500 V  
outstanding waterproof level  
Effectively resist harsh environments



#### FRAME

Strong machinical load  
resistance up to 5400Pa  
Anodic oxidation layer resistant to  
chemical corrosion available

**ELECTRICAL TYPICAL VALUES**

Model	SS460M10GH-20/UH		SS465M10GH-20/UH		SS470M10GH-20/UH		SS475M10GH-20/UH		SS480M10GH-20/UH	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Rated Power (Pmpp)	460	346	465	350	470	353	475	357	480	361
Rated Current (Imp)	13.17	10.56	13.25	10.63	13.33	10.69	13.41	10.75	13.49	10.81
Rated Voltage (Vmpp)	34.92	32.74	35.09	32.90	35.25	33.05	35.41	33.20	35.58	33.35
Short Circuit Current (Isc)	13.91±3%	11.23±3%	13.99±3%	11.29±3%	14.07±3%	11.36±3%	14.15±3%	11.42±3%	14.23±3%	11.48±3%
Open Circuit Voltage (Voc)	42.25±3%	40.13±3%	42.42±3%	40.29±3%	42.58±3%	40.45±3%	42.74±3%	40.60±3%	42.91±3%	40.75±3%
Module Efficiency (%)	21.32		21.55		21.78		22.01		22.24	

STC: irradiance 1000W/m<sup>2</sup>, AM 1.5, and cell temperature of 25°C

NMOT: irradiance 800W/m<sup>2</sup>, AM 1.5, ambient temperature 20°C, wind speed 1m/s

**BIFACIALITY**

Rated Power (Pmax)	510	515	521	526	532
Rated Current (Imp)	14.60	14.68	14.78	14.85	14.95
Rated Voltage (Vmpp)	34.92	35.09	35.25	35.41	35.58
Short Circuit Current (Isc)	15.42±3%	15.50±3%	15.60±3%	15.66±3%	15.77±3%
Open Circuit Voltage (Voc)	42.25±3%	42.42±3%	42.58±3%	42.74±3%	42.91±3%

BNPI: back irradiance 135W/m<sup>2</sup>, AM 1.5, and cell temperature of 25°C

**TEMPERATURE RATINGS**

Tolerance	0~+3w
NOCT	45±2°C
Voltage Temperature Coefficient	-0.250%/°C
Current Temperature Coefficient	+0.046%/°C
Power Temperature Coefficient	-0.300%/°C

**PACKAGING CONFIGURATION**

Container	20' GP	40' HQ
Pieces/Container	222	888
Pallet/Container	6	24

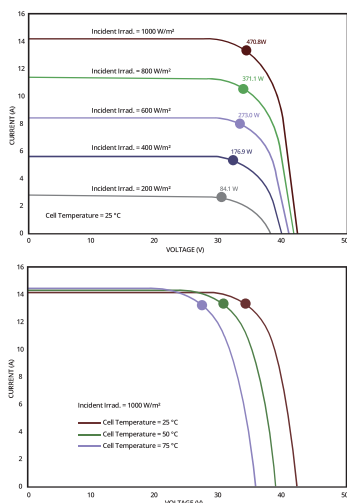
**ABSOLUTE MAX RATING**

Operating Temperature	From -40 to +85°C
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Maksimum Series Fuse Rating	30A
Maksimum System Voltage	DC 1500V

**MECHANICAL CHARACTERISTICS**

Dimension (L x W x H)	Length: 1903mm Width: 1134mm Height: 30mm
Weight	27.20kg
Cell Type	182x91mm N Type Bifacial Mono
No. of Cells	120(12x10)
Front Glass	2.0mm AR coating tempered glass
Back Glass	2.0mm glazed glass
Frame	Anodized aluminium alloy
Cable	4mm <sup>2</sup> , cable 35cm (Including MC4 connector) <small>*The requested cable length must be specified before the offer.</small>
Junction Box	IP 68 Rated

**ELECTRICAL CHARACTERISTIC**



Unit:mm

