

MADE IN TURKEY

MONOFACIAL HALF-CUT CELL 10BB MODULE 530-550W

MonoPERC



Anti - PID



Current Classification

Increases production power in PV plants



Better Shading Tolerance



More Reliable

Low hot-spot effect



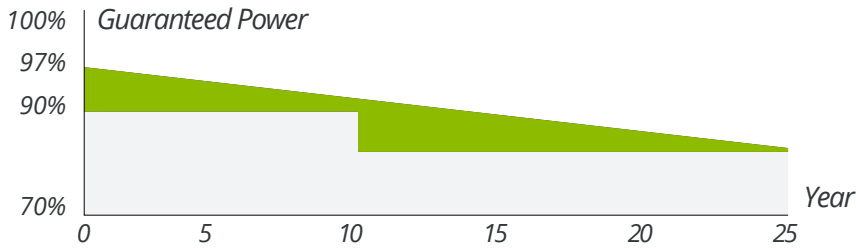
More Power

• Low temperature coefficient
(Pmax): -0.38%/°C



25 Year Warranty

12 year product warranty
25 year linear performance warranty



12 year product warranty

25 year linear performance warranty

■ Industry Standard ■ Smart Solar Technologies



Tempered Solar Glass
Anti-Reflection Coating



Backsheet Layer
320 / 350 Micron 3 Layers



Junction Box
IP68 (Silicon Potting)



Anodized Aluminium Frame
35mm Frame
15-20 µm Eloxal Surface Coating

About Smart Solar Technologies

Smart Solar Technologies produces new generation PERC, Black Silicon, Bifacial, MBB and Half-Cut modules with backsheets or glass-glass options in its factory located in Gebze Organized Industrial Zone with a closed area of 23,500 m².

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ELECTRICAL TYPICAL VALUES

Model	SS530M6-24/TH		SS535M6-24/TH		SS540M6-24/TH		SS545M6-24/TH		SS550M6-24/TH	
	SS530M6H-24/TH		SS535M6H-24/TH		SS540M6H-24/TH		SS545M6H-24/TH		SS550M6H-24/TH	
Type	Monocrystalline 182 x 91mm									
Testing Condition	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC
Rated Power (<i>P_{mpp}</i>)	530	392	535	395	540	399	545	403	550	407
Tolerance	0~+5w									
Rated Current (<i>I_{mpp}</i>)	12.86	10.39	12.92	10.44	12.98	10.49	13.04	10.54	13.10	10.58
Rated Voltage (<i>V_{mpp}</i>)	41.22	37.73	41.41	37.84	41.61	38.04	41.80	38.24	41.99	38.47
Short Circuit Current (<i>I_{sc}</i>)	13.46	10.88	13.54	10.94	13.62	11.00	13.70	11.07	13.78	11.13
Open Circuit Voltage (<i>V_{oc}</i>)	49.06	46.12	49.13	46.18	49.20	46.25	49.27	46.31	49.34	46.38
Module Efficiency (%)	20.51		20.70		20.89		21.09		21.28	
NOCT (<i>Nominal Operating Cell Temperature</i>)	45±2°C									
Voltage Temperature Coefficient	-0.30%/°C									
Current Temperature Coefficient	+0.05%/°C									
Power Temperature Coefficient	-0.38%/°C									

MECHANICAL CHARACTERISTICS

Dimension (LxWxH)	Length: 2279mm (89,73 inch)
	Width: 1134mm (44,65 inch)
	Height: 35mm (1,38 inch)
Weight	29kg (63,93 lbs)
Front Glass	3.2mm tempered glass
Frame	Anodized aluminium alloy
Cable	4mm ² (IEC), 350mm (v) 1300mm (h) or customized length
Junction Box	IP 68 Rated

ABSOLUTE MAXIMUM 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
Maximum Series Fuse Rating	25A
PV Module Classification	II
Fire Rating (IEC 61730)	C
Maximum System Voltage	DC 1000V/1500V

PACKING CONFIGURATION

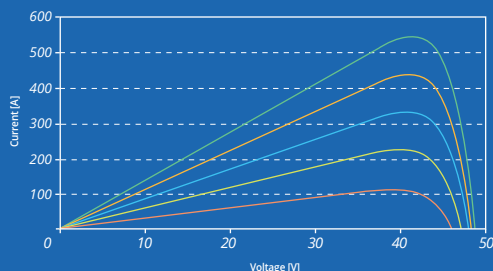
Container	40HQ	20GP
Pieces/Container	620	225

- In compliance with our warranty terms and conditions.
- Measurement conditions under irradiance level of standard test conditions (STC): 1000W/m², air mass 1.5, AM spectrum, cell temperature of 25°C

ELECTRICAL CHARACTERISTICS

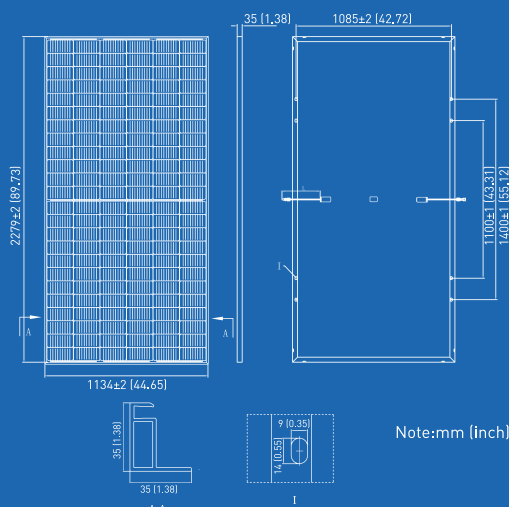
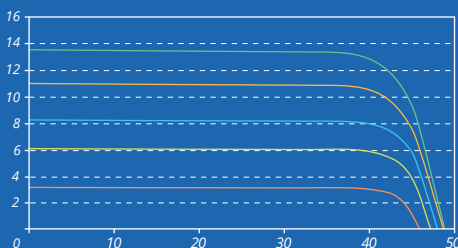
Cells Temp. = 25 °C

Incident Irrad. = 1000 W/m²
Incident Irrad. = 800 W/m²
Incident Irrad. = 600 W/m²
Incident Irrad. = 400 W/m²
Incident Irrad. = 200 W/m²



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Note: This datasheet is not legally binding. Smart Solar Technologies reserves the right to adjust specifications without notice. Further information please refer to our website.

Address: Gebze OSB, Tembelova District, 3200 Street, No: 3207 Gebze/Kocaeli - Turkey
P: +90 262 673 71 00 www.smartsolar.com.tr