

FULL BLACK MODULE 390-420W

MonoPERC



Increase power generation by 6.15%+

Panel is capable to decrease power generation loss caused by Dust, reduce the hot spot risk.



Curved Surface 128° R Angle Reduce holding pressure by 75%+

Curved Frame with ergonomic Design, optimized Delivery and Installation Experience.



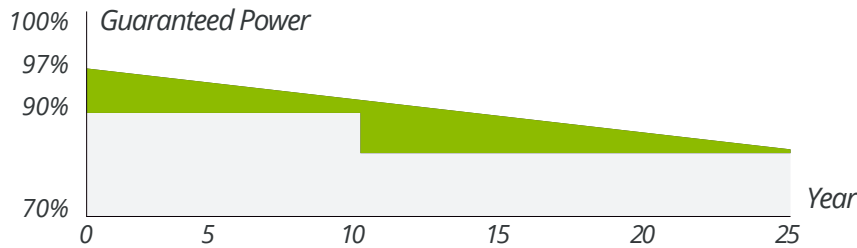
Revolutionary Packaging Technology

Using excellent frame packaging technology, Strong Adhesion, Durable in Use.



Excellent mechanical load capacity

Certified by Dust-Sand, Salt-Mist, Ammonia etc. weather resistance tests and enhanced mechanical load: wind load (2400 Pascal) and snow load (5400 Pascal).



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.

www.smartsolar.com.tr smartgunesteknolojileri /

STC - ELECTRICAL VALUES

Model	SS390M6BH-24/TH	SS395M6BH-24/TH	SS4000M6BH-24/TH	SS405M6BH-24/TH	SS410M6BH-24/TH	SS415M6BH-24/TH	SS420M6BH-24/TH
Type	Monocrystalline 182 x 91mm						
Rated Power (<i>P_{mpp}</i>)	390	395	400	405	410	415	420
Tolerance	0~+5W						
Rated Current (<i>I_{mpp}</i>)	12.60	12.69	12.77	12.85	12.92	13.00	13.07
Rated Voltage (<i>V_{mpp}</i>)	30.90	31.10	31.30	31.50	31.70	31.90	32.10
Short Circuit Current (<i>I_{sc}</i>)	13.40	13.42	13.48	13.54	13.60	13.66	13.72
Open Circuit Voltage (<i>V_{oc}</i>)	36.40	36.30	36.80	37.00	37.20	37.40	37.60
Module Efficiency (%)	19.97	20.23	20.48	20.74	21.00	21.25	21.51
NOCT (<i>Nominal Operating Cell Temperature</i>)	45±2°C						
Voltage Temperature Coefficient	-0.31%/°C						
Current Temperature Coefficient	+0.05%/°C						
Power Temperature Coefficient	-0.35%/°C						
Standard Test Environment : Irradiance 1000W/m2, Cell temperature 25°C, Spectrum AM1.5							

NOCT - ELECTRICAL VALUES

Rated Power (P_{mpp})	290	294	298	301	305	309	312
Rated Current (I_{mpp})	10.01	10.07	10.13	10.19	10.25	10.31	10.38
Rated Voltage (V_{mpp})	29.00	29.20	29.40	29.60	29.80	29.90	30.10
Short Circuit Current (I_{sc})	10.79	10.84	10.89	10.94	10.99	11.04	11.09
Open Circuit Voltage (V_{oc})	34.10	34.30	34.50	34.70	34.90	35.10	35.30
Standard Test Environment : Irradiance 800W/m ² , Ambient temperature 20°C, Spectrum AM1.5, Wind speed 1m/s							

MECHANICAL CHARACTERISTICS

Dimension (LxWxH)	Length: 1722mm (67,79 inch) Width: 1134mm (44,65 inch) Height: 32mm (1,25 inch)
Weight	22kg (48,50 lbs)
Glass	3.2mm High Transmission, Antireflection Coating
Cable	4mm ² (IEC), 300/400mm in length, length can be customized
Junction Box	IP 68, 3 Bypass Diodes
Connector	MC4 Compatible

ABSOLUTE MAXIMUM RATING

Operating Temperature	From -40 to +85°C
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Maximum Series Fuse Rating	25A
Application level	Class A
Maximum System Voltage	DC 1500V

PACKING CONFIGURATION

Container	40HQ
Pieces/Container	884

ELECTRICAL CHARACTERISTICS

