

SHINGLED MONOFACIAL MODULE 380-415W

Shingling Technology

Innovative structure, low-temperature adhesive bonding, high-density layout.

Low System Cost

High module efficiency, reducing system cost.

Beautiful Appearance

Uniform layout, better aesthetic.

Low Hot Spot Risk

Parallel circuit design reduces shading loss.

Eco-friendly

Adhering to green philosophy, no fluorine and low lead.

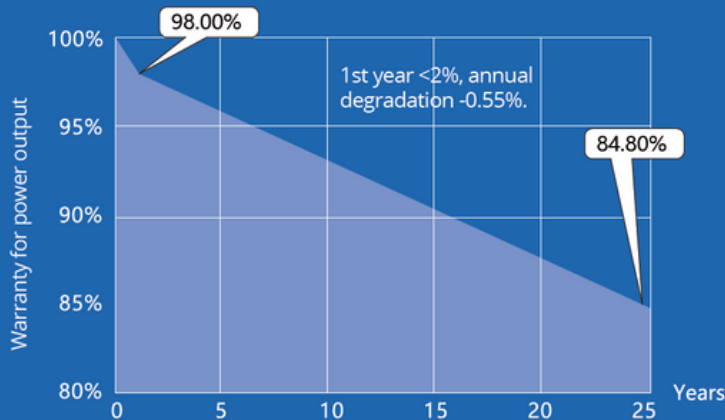
Low Shading Loss

Full parallel arrangement brings high effective power generation hours.

Superior Safety and Reliability

No hidden welding crack, low operating temperature, high pressure resistance.

LINEAR POWER OUTPUT WARRANTY



15 year warranty for materials.

25 year warranty for linear power output

ELECTRICAL TYPICAL VALUES

Model	SS415PMB5-60SBS		SS410PMB5-60SBS		SS405PMB5-60SBS		SS400PMB5-60SBS		SS395PMB5-60SBS		SS390PMB5-60SBS		SS385PMB5-60SBS		SS380PMB5-60SBS	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Rated Power (P_{mpp})	415	312	410	309	405	305	400	301	395	297	390	294	385	290	380	286
Tolerance	0~+5w															
Rated Current (I_{mpp})	10.67	8.43	10.57	8.35	10.47	8.27	10.36	8.18	10.26	8.10	10.13	8.00	10.03	7.92	9.92	7.84
Rated Voltage (V_{mpp})	38.90	37.10	38.80	37.00	38.70	36.90	38.60	36.80	38.50	36.70	38.50	36.70	38.40	36.60	38.30	36.50
Short Circuit Current (I_{sc})	11.12	8.97	11.07	8.93	11.02	8.89	10.97	8.85	10.92	8.81	10.87	8.77	10.82	8.73	10.77	8.69
Open Circuit Voltage (V_{oc})	46.70	44.50	46.60	44.40	46.50	44.30	46.40	44.20	46.30	44.10	46.30	44.10	46.20	44.00	46.10	43.90
Module Efficiency (%)	21.20		20.90		20.70		20.40		20.20		19.90		19.60		19.40	
NMOT (Nominal Module Operating Temperature)	42.30±2°C															
Voltage Temperature Coefficient	-0.27%/°C															
Current Temperature Coefficient	+0.04%/°C															
Power Temperature Coefficient	-0.34%/°C															

MECHANICAL CHARACTERISTICS

Dimension (LxWxH)	Length: 1719mm (67.67inch)
	Width: 1140mm (44.88 inch)
	Height: 30mm (1.18 inch)
Weight	21.0kg (46,30 lbs)
Connector	MC4 Compatible
Front Glass	3.2mm toughened glass
Frame	Anodized aluminium profile
Cable	4mm ² cross section, 1200mm long
Junction Box	Customizable IP68, 2 diodes
Cells	Monocrystalline silicon cell
Cell	340 (34x10)
Orientation	36pcs/box; 936pcs/40' cabinet; 1368pcs/truck
Packaging	

ABSOLUTE MAXIMUM RATING

Operating Temperature	From -40 to +85°C
Hail Diameter @ 23 m/s	Up to 25mm
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Maximum Series Fuse Rating	20A
Maximum System Voltage	DC 1500V/1000V (IEC)

- Standard Test Conditions [STC]: irradiance 1000 W/m²; AM 1.5; ambient temperature 25°C according to EN 60904-3;
- Nominal Module Operating Temperature (NMOT): Irradiance 800W/ m²; wind speed 1m/s , ambient temperature 20°C.
- Tolerance of Pm: 0~+5W, Measuring uncertainty of power: ±3%. Performance deviation of Voc [V], Isc [A], Vm [V] and Im [A]: ±3%.

Note: This datasheet is not legally binding. Smart Solar Technologies reserves the right

ELECTRICAL CHARACTERISTICS

