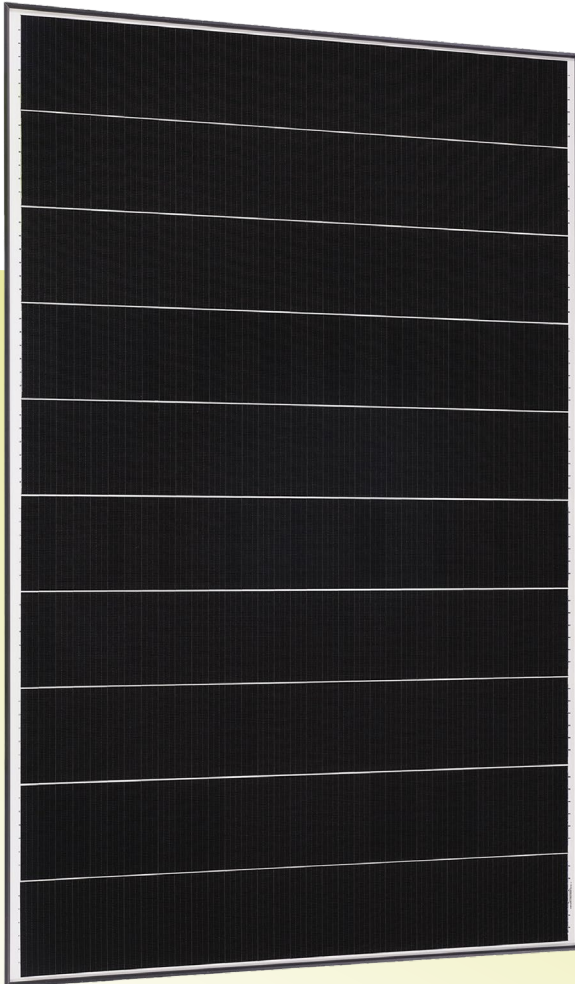


# KS405-410MB5-SBS

Monocrystalline Shingled

BLACK FRAME, WHITE BACKSHEET

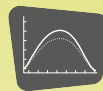
Output: **405-410 W**



## SHINGLED CELLS TECHNOLOGY



Innovative technology allows more cells fit on standard-sized module, avoiding the influence of bus bar shadowing



## REDUCED RESISTANCE

Shingled modules reduce resistance and decrease impedance increasing power



## MORE POWER WITH STANDARD SIZE

High efficiency of the product allows for more effective use of available area for solar installation



## OPTIMIZED INSTALLATION COSTS

Higher energy production combined with standard size decreases costs of transportation and reduces BOS



## POLISH BRAND POLISH GUARANTOR

Designed with the expertise of the largest Polish PV distributor



## RELIABILITY

25-year product performance warranty  
25-year linear warranty

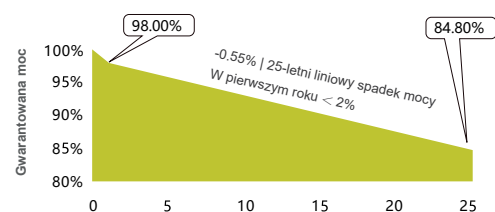


## HIGHEST QUALITY FAVOURABLE PRICE

Quality Control at each stage of production

## HIGH PERFORMANCE FOR MANY YEARS

Gwarancja mocy



### Electrical Characteristics at Standard Test Conditions (STC)

Module Type	KS405MB5-SBS	KS410MB5-SBS
Maximum Power Pm [Wp]	405	410
Open-Circuit Voltage Voc [V]	46.5	46.6
Short-Circuit Current Isc [A]	11.02	11.07
Maximum Power Voltage Vm [V]	38.7	38.8
Maximum Power Current Im [A]	10.47	10.57
Module Efficiency $\eta$ [%]	20.7	20.9

### Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

Maximum Power Pm [Wp]	305	309
Open-Circuit Voltage Voc [V]	44.3	44.4
Short-Circuit Current Isc [A]	8.89	8.93
Maximum Power Voltage Vm [V]	36.9	37.0
Maximum Power Current Im [A]	8.27	8.35

#### Note:

1. Standard Test Conditions [STC]: irradiance 1000 W/m<sup>2</sup>; AM 1.5; ambient temperature 25°C according to EN 60904-3;
2. Nominal Module Operating Temperature (NMOT): Irradiance 800W/ m<sup>2</sup>; wind speed 1m/s, ambient temperature 20°C;
3. Tolerance of Pm: 0~+5W, Measuring uncertainty of power:  $\pm 3\%$ . Performance deviation of Voc [V], Isc [A], Vm [V] and Im [A]:  $\pm 3\%$ .

### Maximum Ratings Parameter

Max. System Voltage	DC 1500(IEC)
Max. Fuse Rated Current [A]	20
Max.Surface Load Capacity [Pa]	5 400
Max. Rear Load Capacity [Pa]	2 400
Operating Temperature [°C]	- 40 to + 85
Withstanding Hail	Max. diameter of 25mm with impact speed of 23m/s

### Other Characteristics

Packaging	36 pcs/pallet 26 pallet/container container 40' = 936 pcs
Warranty	25-year product performance warranty 25-year linear warranty

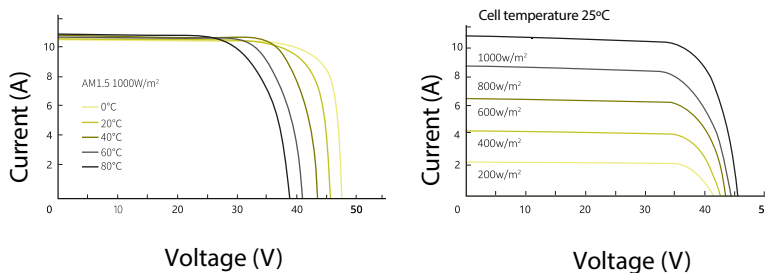
### Temperature Characteristics

Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	0.04%/°C
Temperature Coefficient of Pm	-0.34%/°C

### Mechanical Parameters

Dimensions	1719×1140×30 (L×W×H)
Weight	21 kg
Encapsulation	White toughened safety glass 3.2mm
Lamination	EVA (Ethylene-Vinyl-Acetate)
Cells	Monocrystalline shingle, 340 cells (34x10)
Backsheet	White composite film
Frame	Black anodized aluminum profile
Junction Box	IP68, two diodes
Cable	1m
Connector	MC4 equivalent

### I-V Curves



### Dimensions

Unit: mm

