

# Black Elegance Superior Shingled

ASP M6-72 SGBE Series 400W-410W  
Shingled monocrystalline PV-module in Black Design



**QUALITY & RELIABILITY**  
Best raw materials, optimized production process and accurate testing makes the quality difference



**GERMAN ENGINEERING**  
Best design by the art of German engineering



**SAVE INVESTMENT**  
Product warranty of 12 years  
and performance warranty of 25 years



**POSITIVE PERFORMANCE TOLERANCE**  
Up to +5 W plus-tolerance on output



**FOR ALL ENVIRONMENTAL CONDITIONS**  
Resistant against PID, sand, salt and ammonia



**STABLE AND STRONG**  
Capable to bear heavy snow loads up to 5400 Pa  
and wind loads up to 2400 Pa

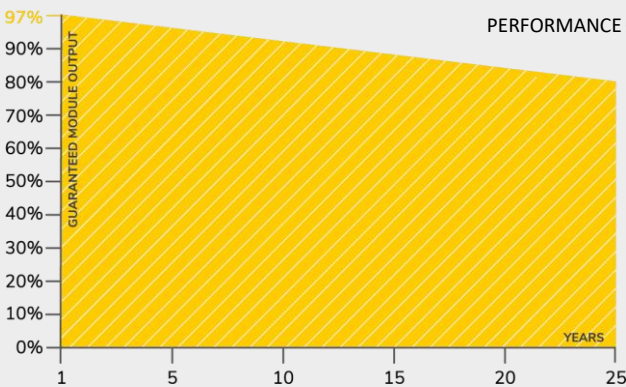


**12 YEARS**  
PRODUCT WARRANTY

## OUR PERFORMANCE GUARANTEE



**25 YEARS**  
PERFORMANCE GUARANTEE



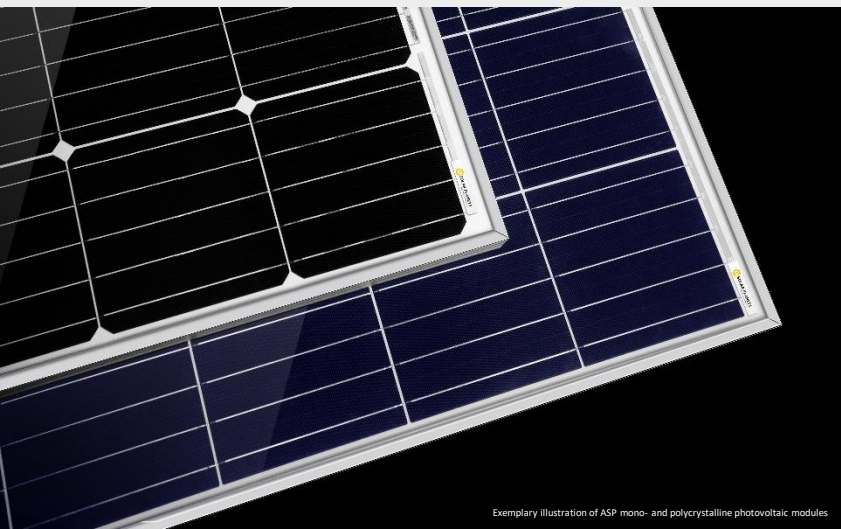
## CERTIFICATES



IEC 61215  
IEC 61730  
PERIODICAL  
INCEPTION



PID RESISTANT  
SALT MIST RESISTANT  
SAND RESISTANT  
CORROSIVE GAS (NH<sub>3</sub>)



# Black Elegance Superior Shingled Module

ASP M6-72 SGBE Series 400W-410W

## TECHNICAL DATA

ASP400M6-72

ASP405M6-72

ASP410M6-72

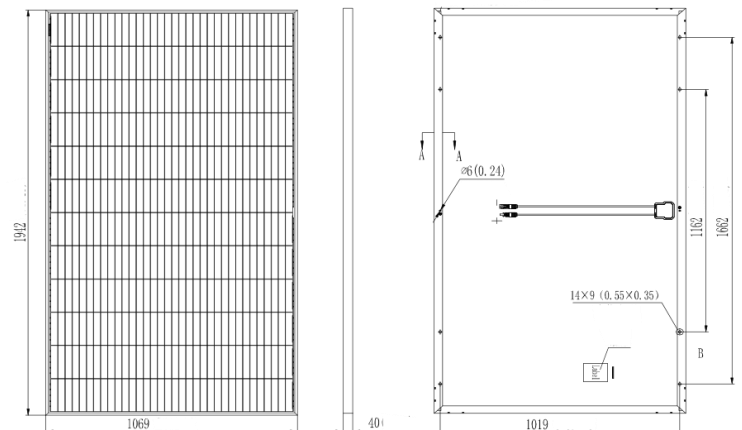
Parameter	Unit	ASP400M6-72	ASP405M6-72	ASP410M6-72
Maximum power	P <sub>max</sub> (Wp)	400	405	410
Maximum power voltage	V <sub>mp</sub> (V)	37.3	37.4	37.5
Maximum power current	I <sub>mp</sub> (A)	10.72	10.83	10.93
Open-circuit voltage	V <sub>oc</sub> (V)	45.2	45.3	45.3
Short-circuit current	I <sub>sc</sub> (A)	11.35	11.39	11.43
Module efficiency	%	19.3	19.5	19.7
Power tolerance	P <sub>max</sub> (W)	0/+5		
Maximum system voltage DC	V	1000 / 1500		
Operating temperature	°C	-40 to +85		
Temperature coefficients of P <sub>max</sub>	%/°C	-0.40		
Temperature coefficients of V <sub>oc</sub>	%/°C	-0.31		
Temperature coefficients of I <sub>sc</sub>	%/°C	0.05		
Nominal operating cell temp. (NOCT)	°C	42±2		

The electrical data apply to standard test conditions (STC): Irradiance of 1000 W/m<sup>2</sup> with spectrum AM 1.5 and a cell temperature of 25°C.

## MATERIAL CHARACTERISTICS

Cell type	Perc monocrystalline silicon cells
No. of cells	72 (6 x 12)
Dimensions	1942 x 1069 x 40 mm
Weight	24.0 kg
Junction box	IP67 rated
Output cable	4.0 mm <sup>2</sup> , 1200 mm length
Connector type	MC4 / MC4 compatible
Hail resistance	Max. Ø 25 mm, at 23 m/s
Wind load	2400 Pa / 244 kg / m <sup>2</sup>
Mechanical load	5400 Pa / 550 kg / m <sup>2</sup>

## DRAWINGS



## PACKING INFORMATION

Packing configuration	52 pcs / double pallet
Loading capacity	624 pcs / 40 HQ
Size / pallet	1980 x 1120 x 2380 mm
Weight	1360 kg / pallet



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