

Black Elegance Superior Shingled

ASP SG Series 465W-475W BE

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

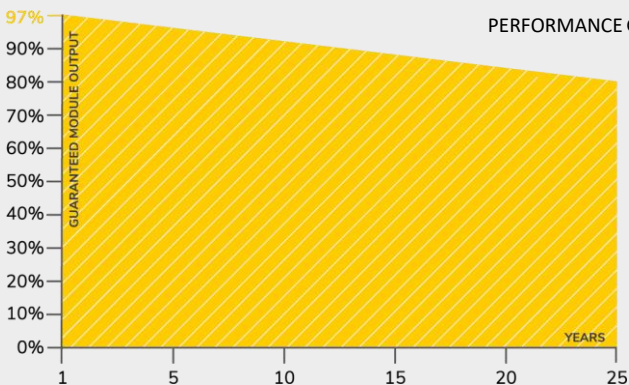


12 YEARS
PRODUCT WARRANTY

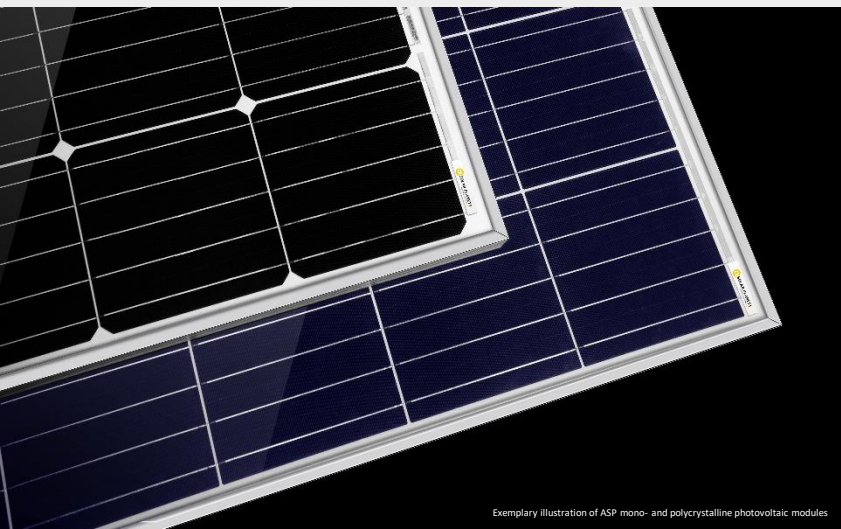
OUR PERFORMANCE GUARANTEE



25 YEARS
PERFORMANCE GUARANTEE



CERTIFICATES



Black Elegance Superior Shingled Module

ASP SG Series 465W-475W BE

TECHNICAL DATA

ASP-SG-465W

ASP-SG-470W

ASP-SG-475W

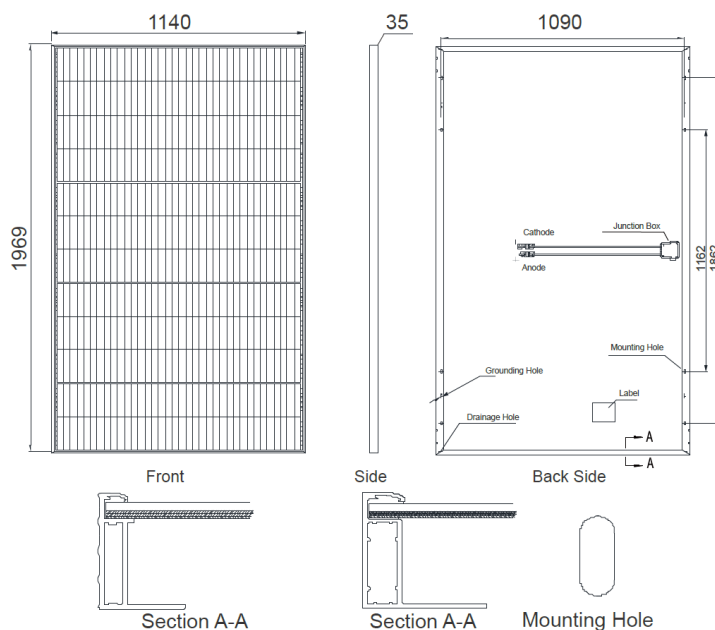
Parameter	Unit	ASP-SG-465W	ASP-SG-470W	ASP-SG-475W
Maximum power	P _{max} (Wp)	465	470	475
Maximum power voltage	V _{mp} (V)	40.9	40.9	41.0
Maximum power current	I _{mp} (A)	11.37	11.49	11.59
Open-circuit voltage	V _{oc} (V)	49.4	49.4	49.5
Short-circuit current	I _{sc} (A)	12.03	12.07	12.12
Module efficiency	%	20.7	20.9	21.2
Power tolerance	P _{max} (W)		0/+5	
Maximum system voltage DC	V		1500	
Operating temperature	°C		-40 to +85	
Temperature coefficients of P _{max}	%/°C		-0.34	
Temperature coefficients of V _{oc}	%/°C		-0.27	
Temperature coefficients of I _{sc}	%/°C		0.04	
Nominal operating cell temp. (NOCT)	°C		42.3±2	

The electrical data apply to standard test conditions (STC): Irradiance of 1000 W/m² with spectrum AM 1.5 and a cell temperature of 25°C.

MATERIAL CHARACTERISTICS

Cell type	PERC monocrystalline 158.75 x 158.75mm
Dimensions	1969 x 1140 x 35 mm
Weight	24.5 kg
Junction box	IP68 rated
Output cable	4.0 mm ² , 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 ²
Mechanical load	5400 Pa / 550 kg / m ²

DRAWINGS



PACKING INFORMATION

Packing configuration	62 pcs / double pallet
Loading capacity	682 pcs / 40 HQ
Size / pallet	1975 x 1135 x 2380 mm
Weight	1539 kg / pallet



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