



KS470-475M-SH

Monocrystalline Shingled

SILVER FRAME, WHITE BACKSHEET

Output: 470-475 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

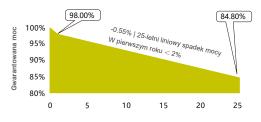


HIGHEST QUALITY FAVOURABLE PRICE

Quality Control at each stage of production

HIGH PERFORMANCE FOR MANY YEARS

Gwarancja mocy





KS470-475M-SH

Electrical Characteristics at Standard Test Conditions (,	VCAZEM CH
Module Type	KS470M-SH	KS475M-SH
Maximum Power Pm [Wp]	470	475
Open-Circuit Voltage Voc [V]	49.4	49.5
Short-Circuit Current Isc [A]	12.07	12.12
Maximum Power Voltage Vm [V]	40.9	41
Maximum Power Current Im [A]	11.49	11.59
Module Efficiency η [%]	20.94	21.2
Electrical Characteristics at Nominal Module Operating	g Temperature (NMOT)	
Maximum Power Pm [Wp]	354	358
Open-Circuit Voltage Voc [V]	47.1	47.2
Short-Circuit Current Isc [A]	9.72	9.76
Maximum Power Voltage Vm [V]	39.0	39.1
Maximum Power Current Im [A]	9.08	9.15

Note:

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;

3. Tolerance of Pm: 0~+5W, Measuring uncertainty of power: ±3%. Performance deviation of Voc [V], Isc [A], Vm [V] and Im [A]: ±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	
Temperature Characteristics		
Temperature Coefficient of Voc	-0.27%/°C	
Temperature Coefficient of Isc	0.04%/°C	
Temperature Coefficient of Pm	-0.34%/°C	

Other Characteristics	
Packaging	31 pcs/pallet 22 pallet/container container 40' = 682 pcs
Warranty	25-year product performance warranty
	25-year linear warranty

1140±2

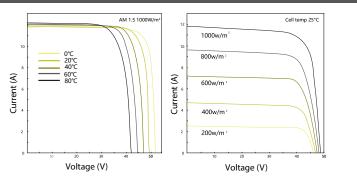
Dimensions

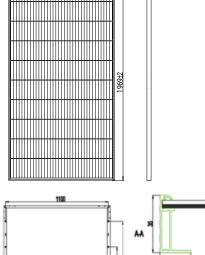
Unit: mm

Ē. ĩ

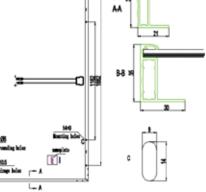
Mechanical Parameters	
Dimensions	1969×1140×35 (L×W×H)
Weight	24 kg
Encapsulation	White toughened safety glass 3.2mm
Lamination	EVA (Ethylene-Vinyl-Acetate)
Cells	Monocrystalline shingled PERC
Backsheet	White composite film
Frame	Anodized aluminum profile
Junction Box	IP68, two diodes
Cable	1m
Connector	MC4 equivalent

I-V Curves





35±1



Due to the continuous technical innovation, technical data above might be of modification accordingly. KENSOL informs of its sole right to make modifications at anytime without further notice.