





SOLAR MODULES



Features & Performance

Our PV modules have been certified by the TUV, CE, CSA; SKY ENERGY is certified by ISO9001, ISO14001, OHSAS18001 etc. As a leading PV manufacturer in Indonesia, our prioritized goal is to keep developing and producing high quality and high efficiency modules.


-  **Maximum Power: 315Wp**
-  **Module Efficiency: 16.32%**
-  **Product Warranty: 10 years**
-  **Power Warranty: 10 years $\geq 90\%$
25 years $\geq 80\%$**

ST72P315 /310/305
ST72P300/295/290
ST72P285/280


Mechanical Property

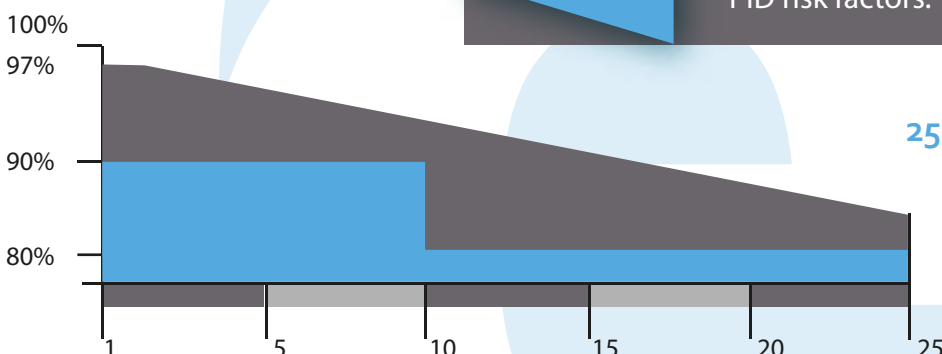
-  Snow loads up to 5400Pa
-  Wind loads up to 2400Pa

Low Light Performance

-  Excellent performance under low light (morning, evening and cloudy days)

High Durability

-  Durable PV modules, independently tested for harsh environmental conditions, such as exposure to salt mist, ammonia and known PID risk factors.



25 Years Linear Warranty



Electrical Performance (STC : AM 1.5, 1000W/m², 25°C)

Module Type	ST72P315	ST72P310	ST72P305	ST72P300	ST72P295	ST72P290	ST72P285	ST72P280
Maximum Power (Pmax/W)	315	310	305	300	295	290	285	280
Power Tolerance	0~+3%							
Maximum Power Voltage (Vm/V)	37.5	37.2	37.0	36.8	36.7	36.6	36.5	36.2
Maximum Power Current (Im/A)	8.42	8.36	8.25	8.17	8.06	7.95	7.82	7.76
Open Circuit Voltage (Voc/V)	45.3	45.2	45.1	44.8	44.7	44.6	44.4	44.3
Short Circuit Current (Isc/A)	8.9	8.84	8.72	8.68	8.61	8.57	8.47	8.43
Module Efficiency (%)	16.32	16.06	15.80	15.54	15.28	15.02	14.76	14.5

Electrical Performance (NOCT : wind speed 1m/s, 800W/m², 20°C)

Module Type	ST72P315	ST72P310	ST72P305	ST72P300	ST72P295	ST72P290	ST72P285	ST72P280
Maximum Power (Pmax/W)	230	226	224	220	215	212	207	204
Maximum Power Voltage (Vm/V)	34.1	33.9	33.8	33.6	33.3	33.2	33.1	32.8
Maximum Power Current (Im/A)	6.74	6.68	6.61	6.54	6.47	6.38	6.27	6.23
Open Circuit Voltage (Voc/V)	41.6	41.5	41.4	41.3	41.1	41.0	40.9	40.7
Short Circuit Current (Isc/A)	7.19	7.14	7.05	7.02	6.95	6.93	6.85	6.81

Mechanical Properties

Dimensions (LxWxH/mm)	1950x990x45	Maximum System Voltage (VDC)	1000(IEC) / 600 (UL)
Weight (Kgs)	25.8	Maximum Series Fuse Rating (A)	15
Solar Cells	Poly crystalline 156x156mm	Operating Module Temperature(°C)	-40 to +85
No. of Cells	72 (6x12)		

Operation Conditions

Glass	3.2mm low-iron tempered glass	Temperature Properties	
Frame	Anodized aluminum alloy	Normal Operating Cell Temperature	45±2°C
Junction box	IP65 above, 6 by pass diodes	Temperature Coefficient of Pm	-0.4 %/°C
Cables	4mm ² , length 1100mm	Temperature Coefficient of Voc	-0.346 %/°C
Connectors	IP67, MC4 compatible	Temperature Coefficient of Isc	+0.046 %/°C

System Design

Hail safety impact velocity	D 25mm at 23 mm/s	Container Sizes	20GP	40HC
Static Load (Front/Back)	5400Pa/2400Pa	Pieces per pallet	22	22/27
Application class	Class A	Pallets per Container	10	11+11
Fire safety class(IEC61730)	Class C	Total pieces	220	539

Packing Configuration

