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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Sky Energy Indonesia**

**ST72M285-330**

**ST72M305**





Also available on the web at  
[EnergyPal.com/sky-energy-indonesia-solar-panels/st72m305](http://EnergyPal.com/sky-energy-indonesia-solar-panels/st72m305)



## 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: 330Wp**
-  **Module Efficiency: 17.09%**
-  **Product Warranty: 10 years**
-  **Power Warranty: 10 years  $\geq 90\%$   
25 years  $\geq 80\%$**

ST72M330/325/320  
ST72M315/310/305  
ST72M300/295/290  
ST72M285


#### Mechanical Property

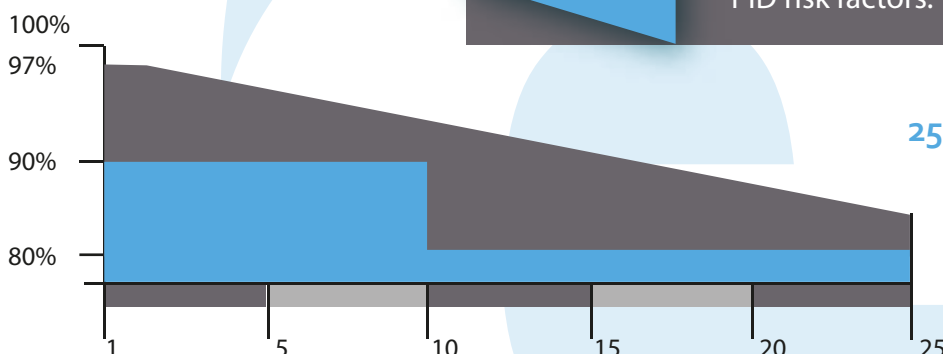
-  Snow loads up to 5400Pa
-  Wind loads up to 2400Pa

#### 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/m<sup>2</sup>, 25°C)

Module Type	ST72M330	ST72M325	ST72M320	ST72M315	ST72M310	ST72M305	ST72M300	ST72M295	ST72M290	ST72M285
Maximum Power (Pmax / W)	330	325	320	315	310	305	300	295	290	285
Power Tolerance	0 ~ +3%									
Maximum Power Voltage (Vm / V)	37.8	37.4	37.0	36.8	36.4	36.1	35.9	35.6	35.5	35.3
Maximum Power Current (Im / A)	8.72	8.68	8.64	8.55	8.51	8.45	8.36	8.30	8.16	8.07
Open Circuit Voltage (Voc / V)	45.7	45.5	45.4	45.3	45.2	45.0	44.8	44.6	44.4	44.3
Short Circuit Current (Isc / A)	9.21	9.16	9.11	9.02	8.96	8.95	8.91	8.89	8.83	8.70
Module Efficiency (%)	17.09	16.84	16.58	16.32	16.06	15.80	15.54	15.28	15.02	14.76

## Electrical Performance (NOCT : wind speed 1m/s, 800W/m<sup>2</sup>, 20°C)

Module Type	ST72M330	ST72M325	ST72M320	ST72M315	ST72M310	ST72M305	ST72M300	ST72M295	ST72M290	ST72M285
Maximum Power (Pmax / W)	241	237	234	230	226	223	219	215	212	208
Maximum Power Voltage (Vm / V)	34.4	34.1	33.7	33.5	33.1	32.9	32.8	32.4	32.4	32.2
Maximum Power Current (Im / A)	6.99	6.96	6.93	6.86	6.83	6.77	6.69	6.65	6.54	6.47
Open Circuit Voltage (Voc / V)	42.0	41.9	41.8	41.7	41.6	41.4	41.2	41.0	40.9	40.8
Short Circuit Current (Isc / A)	7.45	7.40	7.36	7.29	7.24	7.23	7.20	7.18	7.13	7.03

## Mechanical Propeties

Dimensions (LxWxH / mm)	1950x990x45
Weight (Kgs)	25.8
Solar Cells	Monocrystalline 156x156mm
No. of Cells	72 (6x12)
Glass	3.2mm low-iron tempered glass
Frame	Anodized aluminum alloy
Junction box	IP 65 above, 6 bypass diodes
Cables	4mm <sup>2</sup> , length 1100mm
Connectors	IP67, MC4 compatible

## Operation Conditions

Maximum System Voltage (VDC)	1000 (IEC) / 600 (UL)
Maximum Series Fuse Rating (A)	15
Operating Module Temperature (°C)	-40 to +85

## Temperature Propeties

Normal Operating Cell Temperature	45±2 °C
Temperature Coefficient of Pm	-0.38 %/°C
Temperature Coefficient of Voc	-0.356 %/°C
Temperature Coefficient of Isc	+0.056 %/°C

## System Design

Hail safety impact velocity	D 25mm at 23mm/s
Static Load (Front/Back)	5400Pa/2400Pa
Application class	Class A
Fire safety class (IEC61730)	Class C

## Packing Configuration

Container Sizes	20GP	40HC
Pieces per pallet	22	22/27
Pallets per Container	10	11+11
Total pieces	220	539

