

For a Free Quote:

Web: EnergyPal.com/solar

Call: 1-800-990-3725

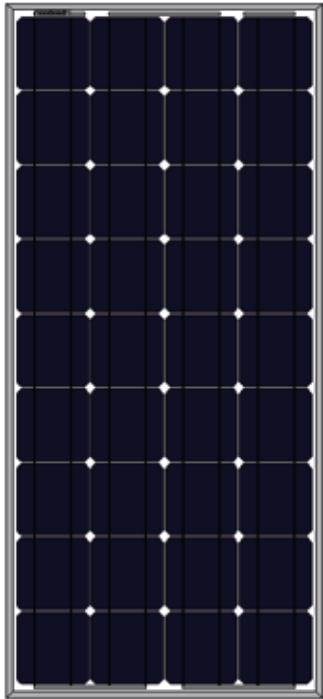
Email: contact@energypal.com

EnergyPal

Solar Panel Guide Specification Data Sheet

**Sky Energy Indonesia
ST36M90-105
ST36M100**





Also available on the web at
EnergyPal.com/sky-energy-indonesia-solar-panels/st36m100



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: 105Wp**
-  **Module Efficiency: 16.11%**
-  **Product Warranty: 10 years**
-  **Power Warranty: 10 years $\geq 90\%$
25 years $\geq 80\%$**

ST36M105 / 100
ST36M95 / 90


Mechanical Property

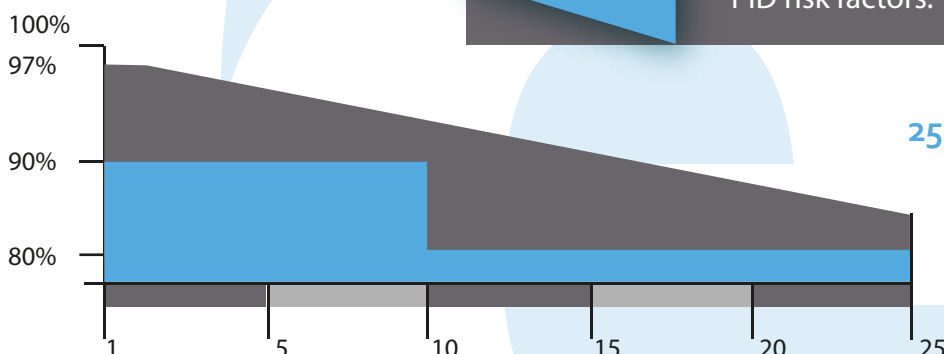
-  Snow loads up to 5400Pa
-  Wind loads up to 2400Pa

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	ST36M105	ST36M100	ST36M95	ST36M90
Maximum Power (Pmax / W)	105	100	95	90
Power Tolerance	0 ~ +3%			
Maximum Power Voltage (Vm / V)	19.0	18.7	18.2	17.6
Maximum Power Current (Im / A)	5.54	5.36	5.22	5.11
Open Circuit Voltage (Voc / V)	22.6	22.5	22.3	22.0
Short Circuit Current (Isc / A)	5.97	5.78	5.63	5.45
Module Efficiency (%)	16.11	15.34	14.57	13.81

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

Module Type	ST36M105	ST36M100	ST36M95	ST36M90
Maximum Power (Pmax / W)	77	73	69	66
Maximum Power Voltage (Vm / V)	17.2	17.0	16.6	16.0
Maximum Power Current (Im / A)	4.45	4.30	4.19	4.10
Open Circuit Voltage (Voc / V)	20.8	20.7	20.5	20.2
Short Circuit Current (Isc / A)	4.83	4.67	4.55	4.40

Mechanical Properties

Dimensions (LxWxH / mm)	1196x545x35
Weight (Kgs)	9.2
Solar Cells	Monocrystalline 125x125mm
No. of Cells	36(4x9)
Glass	3.2mm low-iron tempered glass
Frame	Anodized aluminum alloy
Junction box	IP 65 above, 2 bypass diodes
Cables	4mm ² , length 900mm
Connectors	IP67, MC4 compatible

Operation Conditions

Maximum System Voltage (VDC)	1000 (IEC) / 600 (UL)
Maximum Series Fuse Rating (A)	10
Operating Module Temperature (°C)	-40 to +85

Temperature Properties

Normal Operating Cell Temperature	45±2 °C
Temperature Coefficient of Pm	-0.45 %/°C
Temperature Coefficient of Voc	-0.344 %/°C
Temperature Coefficient of Isc	+0.021 %/°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 (IEC61729)	Class C

Packing Configuration

Container Sizes	20GP	40HC
Pieces per pallet	58/41	58
Pallets per Container	8+8	36
Total pieces	792	2088

