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# **EnergyPal**

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

**Sky Energy Indonesia  
ST36P135-155  
ST36P140**





Also available on the web at  
[EnergyPal.com/sky-energy-indonesia-solar-panels/st36p140](http://EnergyPal.com/sky-energy-indonesia-solar-panels/st36p140)



## 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: 155Wp**
-  **Module Efficiency: 15.63 %**
-  **Product Warranty: 10 years**
-  **Power Warranty: 10 years  $\geq 90\%$   
25 years  $\geq 80\%$**

ST36P155/150  
ST36P145/140  
ST36P135


#### Mechanical Property

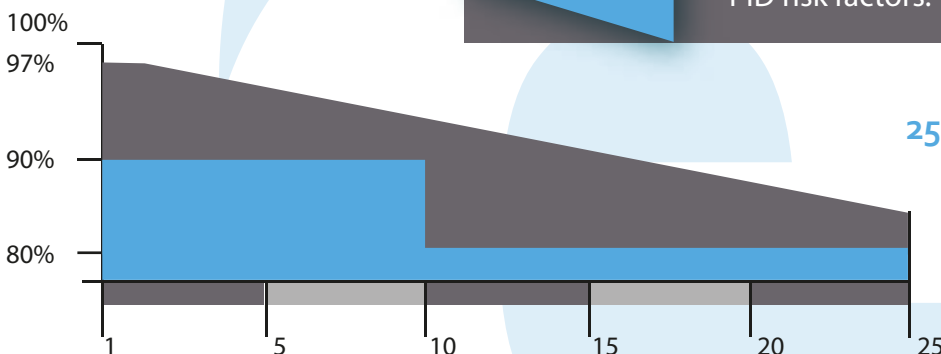
-  Snow loads up to 5400Pa
-  Wind loads up to 2400Pa

#### 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	ST36P155	ST36P150	ST36P145	ST36P140	ST36P135
Maximum Power (Pmax / W)	155	150	145	140	135
Power Tolerance			0 ~ +3%		
Maximum Power Voltage (Vm / V)	18.2	17.9	17.7	17.6	17.5
Maximum Power Current (Im / A)	8.52	8.38	8.19	7.95	7.71
Open Circuit Voltage (Voc / V)	22.1	21.9	21.8	21.7	21.5
Short Circuit Current (Isc / A)	9.10	8.94	8.83	8.69	8.56
Module Efficiency (%)	15.63	15.13	14.62	14.12	13.61

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

Module Type	ST36P155	ST36P150	ST36P145	ST36P140	ST36P135
Maximum Power (Pmax / W)	113	110	106	102	99
Maximum Power Voltage (Vm / V)	16.6	16.3	16.1	16.0	15.9
Maximum Power Current (Im / A)	6.83	6.72	6.57	6.38	6.19
Open Circuit Voltage (Voc / V)	20.4	20.2	20.0	20.0	19.8
Short Circuit Current (Isc / A)	7.36	7.23	7.13	7.02	6.92

### Mechanical Properties

Dimensions (LxWxH / mm)	1480x670x35
Weight (Kgs)	11.8
Solar Cells	Polycrystalline 156x156mm
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 <sup>2</sup> , length 900mm
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 Properties

Normal Operating Cell Temperature	45±2 °C
Temperature Coefficient of Pm	-0.4 %/ °C
Temperature Coefficient of Voc	-0.346 %/ °C
Temperature Coefficient of Isc	+0.046 %/ °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	84	56/33
Pallets per Container	7	15+15
Total pieces	588	1335

