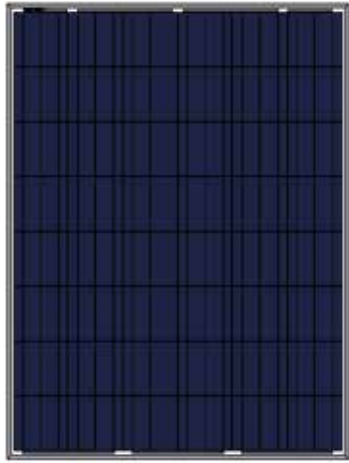






## SOLAR MODULES

### 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: 210Wp**
-  **Module Efficiency: 16.07%**
-  **Product Warranty: 10 years**
-  **Power Warranty: 10 years  $\geq 90\%$   
25 years  $\geq 80\%$**

**ST48P210/205/200**  
**ST48P195/190/185**


#### Mechanical Property

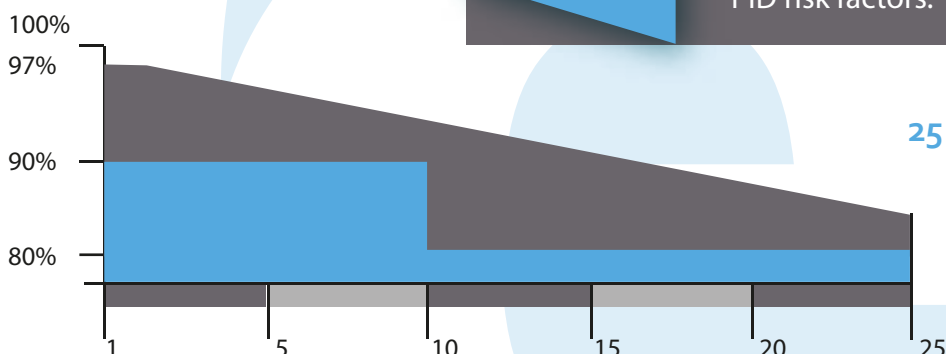
-  Snow loads up to 5400Pa
-  Wind loads up to 2400Pa

#### 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	ST48P210	ST48P205	ST48P200	ST48P195	ST48P190	ST48P185
Maximum Power (Pmax / W)	210	205	200	195	190	185
Power Tolerance	0 ~ +3%					
Maximum Power Voltage (Vm / V)	25.0	24.8	24.6	24.4	24.3	23.8
Maximum Power Current (Im / A)	8.42	8.30	8.14	8.00	7.82	7.78
Open Circuit Voltage (Voc / V)	30.2	29.9	29.8	29.7	29.6	29.5
Short Circuit Current (Isc / A)	8.90	8.75	8.73	8.57	8.47	8.39
Module Efficiency (%)	16.07	15.69	15.30	14.92	14.54	14.16

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

Module Type	ST48P210	ST48P205	ST48P200	ST48P195	ST48P190	ST48P185
Maximum Power (Pmax / W)	153	150	146	142	139	135
Maximum Power Voltage (Vm / V)	22.7	22.5	22.4	22.2	22.1	21.6
Maximum Power Current (Im / A)	6.75	6.65	6.53	6.41	6.27	6.24
Open Circuit Voltage (Voc / V)	27.8	27.5	27.4	27.3	27.2	27.1
Short Circuit Current (Isc / A)	7.19	7.07	7.05	6.93	6.85	6.78

### Mechanical Properties

Dimensions (LxWxH / mm)	1320x990x35
Weight (Kgs)	13.6
Solar Cells	Polycrystalline 156x156mm
No. of Cells	48 (6x8)
Glass	3.2mm low-iron tempered glass
Frame	Anodized aluminum alloy
Junction box	IP 65 above, 3 bypass diodes
Cables	4mm <sup>2</sup> , length 1000mm
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

### 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	28	28/33
Pallets per Container	16	16+16
Total pieces	448	976

