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Solar Panel Guide Specification Data Sheet

**Sky Energy Indonesia
ST60M240-280
ST60M280**

Also available on the web at
EnergyPal.com/sky-energy-indonesia-solar-panels/st60m280



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: 280Wp**
- ☛ **Module Efficiency: 16.32%**
- ☛ **Product Warranty: 10 years**
- ☛ **Power Warranty: 10 years $\geq 90\%$
25 years $\geq 80\%$**

ST60M280/275/270
ST60M265/260/255
ST60M250/245/240

Mechanical Property

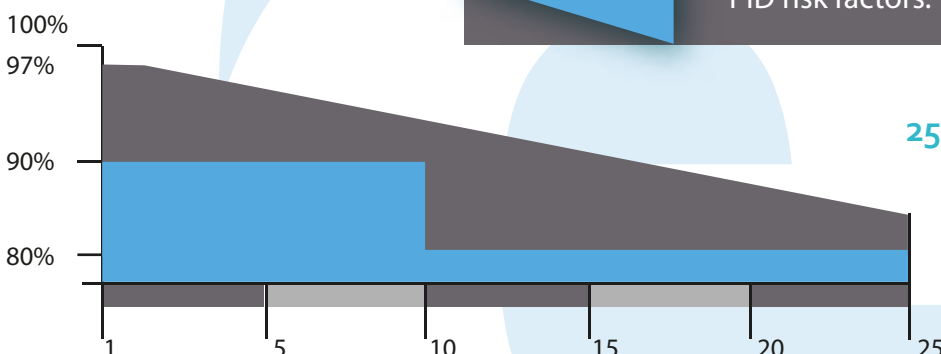
- ☛ Snow loads up to 5400Pa
- ☛ Wind loads up to 2400Pa

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	ST60M280	ST60M275	ST60M270	ST60M265	ST60P260	ST60P255	ST60P250	ST60P245	ST60P240
Maximum Power (Pmax / W)	280	275	270	265	260	255	250	245	240
Power Tolerance	0 ~ +3%								
Maximum Power Voltage (Vm / V)	31.9	31.8	31.6	31.5	31.1	30.8	30.6	30.5	30.2
Maximum Power Current (Im / A)	8.79	8.67	8.55	8.43	8.39	8.29	8.19	8.06	7.96
Open Circuit Voltage (Voc / V)	38.7	38.3	38.2	37.8	37.7	37.5	37.4	37.1	37.0
Short Circuit Current (Isc / A)	9.24	9.16	9.12	9.06	8.96	8.94	8.91	8.86	8.83
Module Efficiency (%)	17.25	16.94	16.63	16.32	16.01	15.71	15.40	15.09	14.78

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

Module Type	ST60M280	ST60M275	ST60M270	ST60M265	ST60P260	ST60P255	ST60P250	ST60P245	ST60P240
Maximum Power (Pmax / W)	204	201	197	193	190	186	183	179	175
Maximum Power Voltage (Vm / V)	29.0	28.9	28.7	28.6	28.2	28.0	27.8	27.7	27.4
Maximum Power Current (Im / A)	7.05	6.95	6.86	6.76	6.73	6.65	6.57	6.46	6.38
Open Circuit Voltage (Voc / V)	35.8	35.4	35.2	34.7	34.6	34.5	34.4	34.1	34.0
Short Circuit Current (Isc / A)	7.46	7.40	7.37	7.32	7.24	7.22	7.20	7.16	7.13

Mechanical Propeties

Dimensions (LxWxH / mm)	1640x990x40
Weight (Kgs)	19.5
Solar Cells	Monocrystalline 156x156mm
No. of Cells	60 (6x10)
Glass	3.2mm low-iron tempered glass
Frame	Anodized aluminum alloy
Junction box	IP 65 above, 3 bypass diodes
Cables	4mm ² , 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

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	25	25/30
Pallets per Container	12	14+14
Total pieces	300	770

