

Electrical characteristics at Standard Test Conditions (STC)

Module	SUN 305-72P	SUN 300-72P	SUN 295-72P	SUN 290-72P	SUN 285-72P
Maximum Power - P _{mpp} (W)	305	300	295	290	285
Positive power tolerance	0~3%	0~3%	0~3%	0~3%	0~3%
Open Circuit Voltage - Voc (V)	44.7	44.5	44.4	44.3	44.1
Short Circuit Current - Isc (A)	8.97	8.91	8.83	8.75	8.67
Maximum Power Voltage - V _{mpp} (V)	35.9	35.8	35.7	35.6	35.4
Maximum Power Current - I _{mpp} (A)	8.50	8.37	8.26	8.15	8.05
Module efficiency	15.75%	15.49%	15.23%	14.98%	14.72%

Electrical data relates to standard test conditions (STC): irradiance 1000W/m²; AM 1.5; cell temperature 25°C measuring uncertainty of power is within ±3%. Certified in accordance with IEC61215, IEC61730-1/2 and UL 1703

Electrical Characteristics at Nominal Operating Cell Temperature (NOCT)

Module	SUN 305-72P	SUN 300-72P	SUN 295-72P	SUN 290-72P	SUN 285-72P
Maximum Power - P _{mpp} (W)	225	220	217	213	209
Maximum Power Voltage - V _{mpp} (V)	33.2	32.9	32.5	32.3	32.2
Maximum Power Current - I _{mpp} (A)	6.77	6.71	6.67	6.59	6.50
Open Circuit Voltage - Voc (V)	41.3	41.1	41.0	40.8	40.6
Short Circuit Current - Isc (A)	7.24	7.19	7.01	6.95	6.89

Electrical data relates to nominal operating cell temperature (NOCT): irradiance 800W/m²; wind speed 1 m/s; cell temperature 45°C; ambient temperature 20°C measuring uncertainty of power is within ±3%.

Temperature Characteristics

Voltage Temperature Coefficient	-0.292%/K
Current Temperature Coefficient	+0.045%/K
Power Temperature Coefficient	-0.408%/K

Maximum Ratings

Maximum system voltage (V)	1000
Series fuse rating (A)	20
Reverse current overload (A)	27

Mechanical Characteristics

Dimensions	1956 × 990 × 50 mm
Weight	23.8 kg
Frame	Anodized aluminum profile
Front glass	White toughened safety glass, 3.2 mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back Sheet	Composite film
Cells	6 × 12 pieces polycrystalline solar cells series strings (156 × 156 mm)
Junction Box	Rated current ≥ 12A, IP ≥ 65, TUV & UL
Cable	Length 900 mm, 1 × 4 mm ²
Connector	MC 4/ compatible with MC 4

Packaging

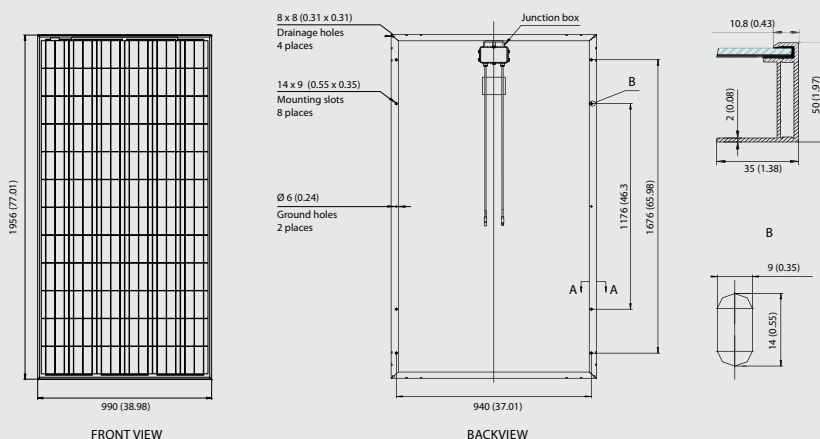
Container 20'	200 pcs.
Container 40'	480 pcs.
Container 40'HC	516 pcs.

System Design

Temp. range	-40°C to + 85°C
Hail	Max. diameter of 25mm with 23m/s impact speed
Max. capacity	Snow 5400 Pa, wind 2400 Pa
Application class	A
Safety class	II

Dimensions

Note: All dimensions in mm (inch)



IV-Curves

