

Introducing
the world's **most reliable**
solar panel

Product catalogue / **Solar panels**



 **sener****SUN**

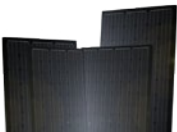
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A brief introduction to Senersun

At Senersun, quality is and has always been a matter of commitment. Because only one broken cell in a single solar panel can reduce a whole PV system's performance by up to more than 30%, we see it critical to deliver only defect-free solar panels.

And because no other solar panel manufacturer commits on such quality level*, Senersun applies to each and every of its solar panels the most advanced quality control program ever implemented by a PV module maker: Senersun Premium Quality Program (SPQP).

* In 2012, STS-Certified reported an average PV module defect rate of 13%, based on 200,000 solar panels tested from the largest to the smallest manufacturers.

Introducing Senersun Premium Quality Program the most advanced PV module QC program

Pushing forward the boundaries of industry standards

Existing safety and quality standards are necessary but they do not suffice to guarantee the long-term performance of solar panels. Senersun has therefore developed exhaustive quality standards, which cover the whole scope of quality on a solar panel, from the determination of what is a micro-crack to the assessment of the packaging. Like no other solar panel manufacturer, Senersun applies these standards to every solar panel to guarantee the most sustainable generation of electricity that a solar panel can produce.

Standards applied to 100% of solar panels

Senersun commits to apply its industry-leading quality standards to EVERY solar panel. The compliance of our solar panels with our standards is ensured through a careful selection of the components, best practice during production, thorough testing during and after assembling, and third-party inspections.

More information about Senersun Premium Quality Program on www.senersun.com

Quality during production

Senersun panels are manufactured according to strictly defined processes to ensure the utmost quality of every panel leaving the factory's doors. A first series of intensive tests is carried out throughout production. The production of every of our solar panels strictly follows Senersun quality standards.

Regular audits by an independent laboratory (STS-Certified), during which qualified experts control the production of our solar panels and make certain of the compliance of our products with our quality standards.*

Verification after production

Tests run at Senersun's factory after production, including Electroluminescence (EL) and Flash tests for better performance on the short, mid and long term.

100% third party testing available*

Senersun solar panel can be sent to STS-Certified's testing facility, where every characteristic of the product is checked on each panel, from cell quality (100% EL test), performance (100% Flash test + analysis of the curve), to technical and visual quality. Components and packaging are also controlled. The panels approved by STS-Certified are labelled as such for a better traceability.

*Not applicable to EU-made solar panels



The world's most reliable solar panel
STANDARD SERIES

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS
BEFORE USING THIS PRODUCT.

Visit www.senersun.com for more information.





SSM72A - 190/200Wp



SSM96A - 250/260Wp



SSM60C - 250/260Wp



SSM60C (EU-made)
250/265Wp



SSM72C - 290/305Wp



SSM72A All Black
185/195Wp



SSM96A All Black
250/255Wp



SSM60C All Black
245/250Wp



SSM60C All Black (EU-made)
245/260Wp



SSM72C All Black
290/300Wp



SSP60C - 230/245Wp



SSP60D (EU-made)
240/255Wp



SSP72C - 280/295Wp





Introducing
the world's most reliable
monocrystalline solar panel

SPQP
Best-in-class QC

Senersun Premium Quality Program
The highest quality standards of the industry applied to every single solar panel

16.2%
Module efficiency

High module efficiency
16.2% module efficiency: increased production of electricity for each m²

-0/+3%
Positive tolerance

Guaranteed performance
A-grade components only and positive tolerance (-0/+3%)

25
-year warranty

25-year warranty
10-year product warranty
Linear 25-year power output warranty

Unique quality

The most stringent quality standards of the industry are applied to every single solar panel as part of Senersun Premium Quality Program (SPQP), the most advanced quality control program ever implemented by a solar panel manufacturer. 100% third-party validation available, for an absolute peace of mind.*

This is how we make sure of the utmost reliability of every single solar panel we deliver.

Safer packaging

Because packaging is an essential part of the value chain, Senersun solar panels are shipped in a packaging specifically designed to protect them better during transportation. Our packaging also makes the handling of the panels easier and improves the user experience.

One more solution we brought up to guarantee the unique quality of our solar panels.

Linear performance warranty

Senersun panels will produce up to 103% of their rated power output at delivery. During the first year, Senersun guarantees that the actual power cannot differ by more than 3% from the specified power. From the second year onwards, the power will not decrease by more than 0.7% of the rated power per year.

Visit www.senersun.com for more information.

*Not applicable to EU-made solar panels

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BEFORE USING THIS PRODUCT.

Visit www.senersun.com for more information.





SSM72A - 190/200W

72 x 5" A-grade monocrystalline solar cells

Electrical characteristics at STC

(STC: Standard Test Conditions)

		SSM72A-190	SSM72A-195*	SSM72A-200*
Maximum Power (P_{max})	[Wp]	190	195	200
Power Tolerance	[%]	-0/+3	-0/+3	-0/+3
Maximum Power Voltage (V_{mpp})	[V]	36.60	36.70	36.80
Maximum Power Current (I_{mpp})	[A]	5.20	5.32	5.44
Open-Circuit Voltage (V_{oc})	[V]	44.60	44.70	44.90
Short-Circuit Current (I_{sc})	[A]	5.62	5.75	5.87
Module Efficiency	[%]	14.9	15.3	15.7
Test Conditions	-	1,000 W/m ² , (25 ± 2)°C, AM 1.5		

Electrical characteristics may vary by ±5% | *UL certification up to 190Wp, TÜV, MCS and CEC certifications up to 195Wp

Temperature ratings

Temperature Coefficients of P_{max}	-0.43%/°C
Temperature Coefficients of V_{oc}	-0.3%/°C
Temperature Coefficients of I_{sc}	+0.04%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Maximum ratings

Maximum System Voltage	1000VDC / 6000VDC (UL)
Maximum Series Fuse Rating	10A

Components information

Cell Type	Mono-crystalline 125×125 mm (5 inch)
No. of Cells	72 (6x12)
Front Glass	3.2mm High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP 65 Rated
Output Cables	TÜV 4.0mm ² Single Core Length 900mm
Connectors	MC4 Compatible
Back Sheet	TPT



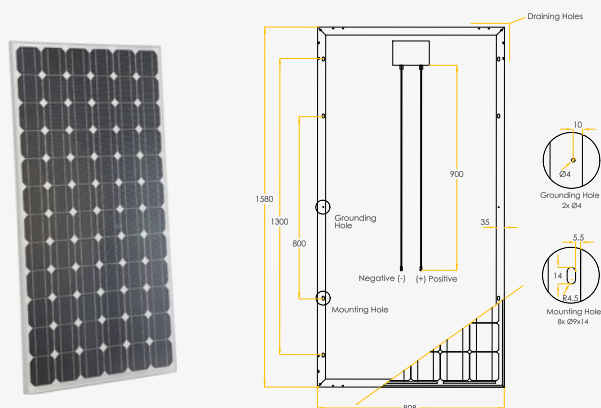
Mechanical characteristics

Dimensions	1580×808×35mm*
Weight	15.6 kg (34.1 lbs)

*UL Certified: 1580x808x45mm

Packaging configuration

Pallet Load	27 pcs / pallet
Container Load	756 pcs / 40', 324 pcs / 20'



Dimensions in mm

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THIS PRODUCT.

Visit www.senersun.com for more information.



SSM96A - 250/260W

96 x 5" A-grade monocrystalline solar cells

Electrical characteristics at STC

(STC: Standard Test Conditions)

		SSM96A-250	SSM96A-255	SSM96A-260
Maximum Power (P_{max})	[Wp]	250	255	260
Power Tolerance	[%]	-0/+3	-0/+3	-0/+3
Maximum Power Voltage (V_{mpp})	[V]	48.17	48.40	48.50
Maximum Power Current (I_{mpp})	[A]	5.19	5.27	5.36
Open-Circuit Voltage (V_{oc})	[V]	59.28	59.53	59.65
Short-Circuit Current (I_{sc})	[A]	5.60	5.69	5.78
Module Efficiency	[%]	14.9	15.2	15.5
Test Conditions	-	1,000 W/m ² , (25 ± 2)°C, AM 1.5		

Electrical characteristics may vary by ±5%

Temperature ratings

Temperature Coefficients of P_{max}	-0.43%/°C
Temperature Coefficients of V_{oc}	-0.3%/°C
Temperature Coefficients of I_{sc}	+0.04%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Maximum ratings

Maximum System Voltage	1000V
Maximum Series Fuse Rating	10A

Components information

Cell Type	Mono-crystalline 125×125 mm (5 inch)
No. of Cells	96 (8x12)
Front Glass	3.2mm High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP 65 Rated
Output Cables	TÜV 4.0mm ² Single Core Length 900mm
Connectors	MC4 Compatible
Back Sheet	TPT

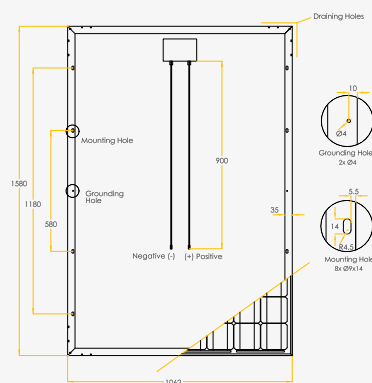


Mechanical characteristics

Dimensions	1580×1062×50mm
Weight	20.5 kg (45.1 lbs)

Packaging configuration

Pallet Load	20 pcs / pallet
Container Load	520 pcs / 40'HQ, 204 pcs / 20'



Dimensions in mm

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS
BEFORE USING THIS PRODUCT.

Visit www.senersun.com for more information.



SSM60C - 250/260W

60 x 6" A-grade monocrystalline solar cells

Electrical characteristics at STC

(STC: Standard Test Conditions)

		SSM60C-250	SSM60C-255*	SSM60C-260*
Maximum Power (P_{max})	[Wp]	250	255	260
Power Tolerance	[%]	-0/+3	-0/+3	-0/+3
Maximum Power Voltage (V_{mpp})	[V]	30.52	30.62	30.70
Maximum Power Current (I_{mpp})	[A]	8.19	8.33	8.47
Open-Circuit Voltage (V_{oc})	[V]	37.54	37.66	37.76
Short-Circuit Current (I_{sc})	[A]	8.84	8.99	9.14
Module Efficiency	[%]	15.4	15.7	16
Test Conditions	-	1,000 W/m ² , (25 ± 2)°C, AM 1.5		

Electrical characteristics may vary by ±5% | * TÜV, MCS and CEC certifications up to 250Wp

Temperature ratings

Temperature Coefficients of P_{max}	-0.43%/°C
Temperature Coefficients of V_{oc}	-0.3%/°C
Temperature Coefficients of I_{sc}	+0.04%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Maximum ratings

Maximum System Voltage	1000V
Maximum Series Fuse Rating	15A

Components information

Cell Type	Mono-crystalline 156×156 mm (6 inch)
No. of Cells	60 (6x10)
Front Glass	3.2mm High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP 67 Rated
Output Cables	TÜV 4.0mm ² Single Core Length 900mm
Connectors	MC4 Compatible
Back Sheet	TPT

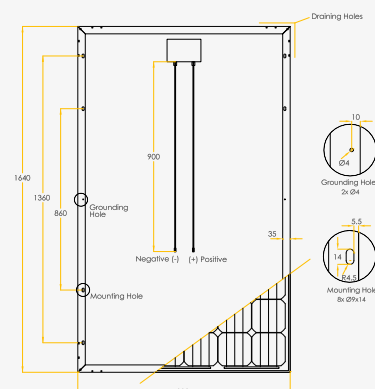


Mechanical characteristics

Dimensions	1640×992×50mm
Weight	21 kg (46.2 lbs)

Packaging configuration

Pallet Load	20 pcs / pallet
Container Load	520 pcs / 40'HQ, 204 pcs / 20'



Dimensions in mm

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS
BEFORE USING THIS PRODUCT.

Visit www.senersun.com for more information.



Made in Germany

SSM60C (EU-MADE) - 250/265W

60 x 6" A-grade monocrystalline solar cells

Electrical characteristics at STC

(STC: Standard Test Conditions)

		SSM60C-250-E	SSM60C-255-E	SSM60C-260-E	SSM60C-265-E
Maximum Power (P_{max})	[Wp]	250	255	260	265
Power Tolerance	[%]	-0/+3	-0/+3	-0/+3	-0/+3
Maximum Power Voltage (V_{mpp})	[V]	30.0	30.2	30.5	30.7
Maximum Power Current (I_{mpp})	[A]	8.34	8.45	8.57	8.67
Open-Circuit Voltage (V_{oc})	[V]	37.3	37.5	37.8	38.1
Short-Circuit Current (I_{sc})	[A]	8.74	8.83	8.92	9.01
Module Efficiency	[%]	15.24	15.55	15.85	16.16
Test Conditions	-	1,000 W/m ² , (25 ± 2)°C, AM 1.5			

Electrical characteristics at NOCT

(NOCT: Nominal Operating Cell Temperature)

		SSM60C-250-E	SSM60C-255-E	SSM60C-260-E	SSM60C-265-E
Maximum Power (P_{max})	[Wp]	179	183	186	190
Maximum Power Voltage (V_{mpp})	[V]	26.9	27.1	27.3	27.5
Maximum Power Current (I_{mpp})	[A]	6.66	6.75	6.83	6.92
Open-Circuit Voltage (V_{oc})	[V]	33.7	33.9	34.2	34.4
Short-Circuit Current (I_{sc})	[A]	7.06	7.13	7.20	7.27
Test Conditions	-	800 W/m ² , NOCT, AM 1.5, Ambient temperature: 20°C, Wind speed: 1 m/s			

Reduction of module efficiency from 1,000W/m² to 200W/m²: <4% | Measuring tolerance: Pmax: ±3%, other electrical characteristics: ±10%

Temperature ratings

Temperature Coefficients of P_{max}	-0.43%/°C
Temperature Coefficients of V_{oc}	-0.33%/°C
Temperature Coefficients of I_{sc}	+0.04%/°C
Nominal Operating Cell Temperature (NOCT)	48°C ±2°C

Maximum ratings

Maximum System Voltage	1,000V
Limiting Reverse Current (I_r)	20A
Operating Temperature	-40°C to +85°C

Components information

Cell Type	Mono-crystalline 156×156 mm (6 inch)
No. of Cells	60 (6x10)
Front Glass	Transparent toughened safety glass, 3.2 mm
Frame	Anodized aluminum frame
Junction Box	IP65 Rated, with 3 bypass diodes
Output Cables	4 mm ² solar cable length 1,000 mm
Application Class	Application class A (according to IEC 61730)
Cell Encapsulation	EVA (Ethylene Vinyl Acetate)
Back Side	Composite film

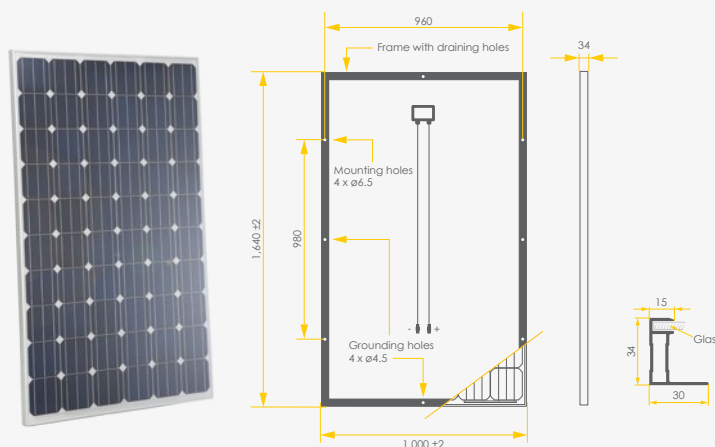


Mechanical characteristics

Dimensions	1640x1000x34 mm
Weight	18.2 kg

Packaging configuration

Pallet Load	29 pcs / pallet
Container Load	812 pcs / 40' HQ



Dimensions in mm

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THIS PRODUCT.

Visit www.senersun.com for more information.



SSM72C - 290/305W

72 x 6" A-grade monocrystalline solar cells

Electrical characteristics at STC

(STC: Standard Test Conditions)

		SSM72C-290	SSM72C-295	SSM72C-300	SSM72C-305*
Maximum Power (P_{max})	[Wp]	290	295	300	305
Power Tolerance	[%]	-0/+3	-0/+3	-0/+3	-0/+3
Maximum Power Voltage (V_{mpp})	[V]	36.51	36.60	36.75	36.80
Maximum Power Current (I_{mpp})	[A]	7.94	8.06	8.16	8.29
Open-Circuit Voltage (V_{oc})	[V]	44.76	44.85	45.05	45.26
Short-Circuit Current (I_{sc})	[A]	8.57	8.70	8.81	8.95
Module Efficiency	[%]	14.9	15.2	15.5	15.7
Test Conditions	-	1,000 W/m ² , (25 ± 2)°C, AM 1.5			

Electrical characteristics may vary by ±5% | * TÜV, MCS and CEC certifications up to 300Wp

Temperature ratings

Temperature Coefficients of P_{max}	-0.43%/°C
Temperature Coefficients of V_{oc}	-0.3%/°C
Temperature Coefficients of I_{sc}	+0.04%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Maximum ratings

Maximum System Voltage	1000V
Maximum Series Fuse Rating	15A

Components information

Cell Type	Mono-crystalline 156×156 mm (6 inch)
No. of Cells	72 (6x12)
Front Glass	3.2mm High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP 67 Rated
Output Cables	TÜV 4.0mm ² Single Core Length 900mm
Connectors	MC4 Compatible
Back Sheet	TPT

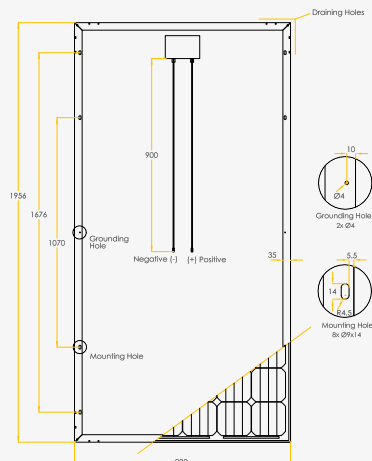


Mechanical characteristics

Dimensions	1956×992×50mm
Weight	23 kg (50.6 lbs)

Packaging configuration

Pallet Load	20 pcs / pallet
Container Load	440 pcs / 40'HQ, 170 pcs / 20'



Dimensions in mm

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS
BEFORE USING THIS PRODUCT.

Visit www.senersun.com for more information.





Introducing
the world's most reliable
All Black solar panel

SPQP
Best-in-class QC

Senersun Premium Quality Program
The highest quality standards of the industry applied to every single solar panel

15.9%
Module efficiency

High module efficiency
15.9% module efficiency: increased production of electricity for each m²

-0/+3%
Positive tolerance

Guaranteed performance
A-grade components only and positive tolerance (-0/+3%)

25
-year warranty

25-year warranty
10-year product warranty
Linear 25-year power output warranty

Unique quality

The most stringent quality standards of the industry are applied to every single solar panel as part of Senersun Premium Quality Program (SPQP), the most advanced quality control program ever implemented by a solar panel manufacturer. 100% third-party validation available, for an absolute peace of mind.

This is how we make sure of the utmost reliability of every single solar panel we deliver.

Safer packaging

Because packaging is an essential part of the value chain, Senersun solar panels are shipped in a packaging specifically designed to protect them better during transportation. Our packaging also makes the handling of the panels easier and improves the user experience.

One more solution we brought up to guarantee the unique quality of our solar panels.

Linear performance warranty

Senersun panels will produce up to 103% of their rated power output at delivery. During the first year, Senersun guarantees that the actual power cannot differ by more than 3% from the specified power. From the second year onwards, the power will not decrease by more than 0.7% of the rated power per year.

Visit www.senersun.com for more information.

*Not applicable to EU-made solar panels

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS
BEFORE USING THIS PRODUCT.

Visit www.senersun.com for more information.





SSM72A ALL BLACK - 185/195W

72 x 5" A-grade monocrystalline solar cells

Electrical characteristics at STC

(STC: Standard Test Conditions)

		SSM72A-185 BL	SSM72A-190 BL	SSM72A-195 BL
Maximum Power (P_{max})	[Wp]	185	190	195
Power Tolerance	[%]	-0/+3	-0/+3	-0/+3
Maximum Power Voltage (V_{mpp})	[V]	36.5	36.6	36.7
Maximum Power Current (I_{mpp})	[A]	5.07	5.2	5.32
Open-Circuit Voltage (V_{oc})	[V]	44.5	44.6	44.7
Short-Circuit Current (I_{sc})	[A]	5.48	5.62	5.75
Module Efficiency	[%]	14.5	14.9	15.3
Test Conditions	-	1,000 W/m ² , (25 ± 2)°C, AM 1.5		

Electrical characteristics may vary by ±5%

Temperature ratings

Temperature Coefficients of P_{max}	-0.43%/°C
Temperature Coefficients of V_{oc}	-0.3%/°C
Temperature Coefficients of I_{sc}	+0.04%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Maximum ratings

Maximum System Voltage	1000V
Maximum Series Fuse Rating	10A

Components information

Cell Type	Mono-crystalline 125×125 mm (5 inch)
No. of Cells	72 (6x12)
Front Glass	3.2mm High Transmission, Low Iron, Tempered Glass
Frame	Black Anodized Aluminium Alloy
Junction Box	IP 65 Rated
Output Cables	TÜV 4.0mm ² Single Core Length 900mm
Connectors	MC4 Compatible
Back Sheet	TPT

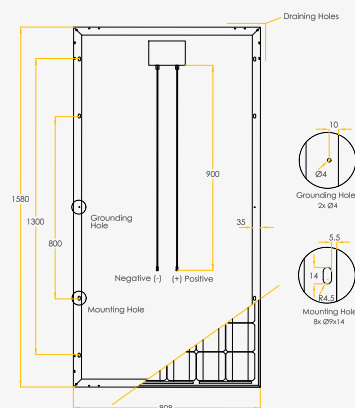


Mechanical characteristics

Dimensions	1580×808×35mm
Weight	15.6 kg (34.1 lbs)

Packaging configuration

Pallet Load	27 pcs / pallet
Container Load	756 pcs / 40', 324 pcs / 20'



Dimensions in mm

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THIS PRODUCT.

Visit www.senersun.com for more information.





SSM96A ALL BLACK - 250/255W

96 x 5" A-grade monocrystalline solar cells

Electrical characteristics at STC

(STC: Standard Test Conditions)

		SSM96A-250 BL	SSM96A-255 BL
Maximum Power (P_{max})	[Wp]	250	255
Power Tolerance	[%]	-0/+3	-0/+3
Maximum Power Voltage (V_{mpp})	[V]	48.17	48.40
Maximum Power Current (I_{mpp})	[A]	5.19	5.27
Open-Circuit Voltage (V_{oc})	[V]	59.28	59.53
Short-Circuit Current (I_{sc})	[A]	5.60	5.69
Module Efficiency	[%]	14.9	15.2
Test Conditions	-	1,000 W/m ² , (25 ± 2)°C, AM 1.5	

Electrical characteristics may vary by ±5%

Temperature ratings

Temperature Coefficients of P_{max}	-0.43%/°C
Temperature Coefficients of V_{oc}	-0.3%/°C
Temperature Coefficients of I_{sc}	+0.04%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Maximum ratings

Maximum System Voltage	1000V
Maximum Series Fuse Rating	10A

Components information

Cell Type	Mono-crystalline 125×125 mm (5 inch)
No. of Cells	96 (8x12)
Front Glass	3.2mm High Transmission, Low Iron, Tempered Glass
Frame	Black Anodized Aluminium Alloy
Junction Box	IP 65 Rated
Output Cables	TÜV 4.0mm ² Single Core Length 900mm
Connectors	MC4 Compatible
Back Sheet	TPT

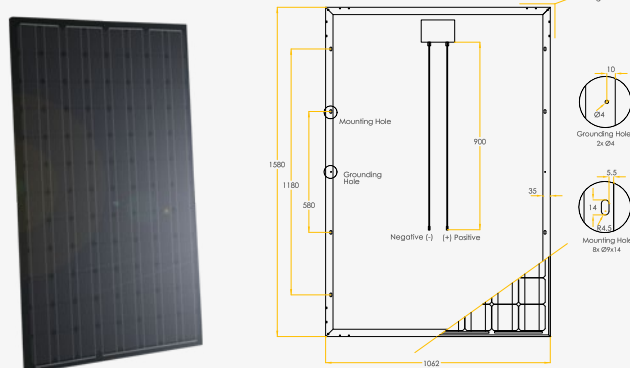


Mechanical characteristics

Dimensions	1580×1062×50mm
Weight	20.5 kg (45.1 lbs)

Packaging configuration

Pallet Load	20 pcs / pallet
Container Load	520 pcs / 40'HQ, 204 pcs / 20'



Dimensions in mm

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS
BEFORE USING THIS PRODUCT.

Visit www.senersun.com for more information.





SSM60C ALL BLACK - 245/250W

60 x 6" A-grade monocrystalline solar cells

Electrical characteristics at STC

(STC: Standard Test Conditions)

		SSM60C-245 BL	SSM60C-250 BL
Maximum Power (P_{max})	[Wp]	245	250
Power Tolerance	[%]	-0/+3	-0/+3
Maximum Power Voltage (V_{mpp})	[V]	30.42	30.52
Maximum Power Current (I_{mpp})	[A]	8.05	8.19
Open-Circuit Voltage (V_{oc})	[V]	37.3	37.54
Short-Circuit Current (I_{sc})	[A]	8.69	8.84
Module Efficiency	[%]	15.1	15.4
Test Conditions	-	1,000 W/m ² , (25 ± 2)°C, AM 1.5	

Electrical characteristics may vary by ±5%

Temperature ratings

Temperature Coefficients of P_{max}	-0.43%/°C
Temperature Coefficients of V_{oc}	-0.3%/°C
Temperature Coefficients of I_{sc}	+0.04%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Maximum ratings

Maximum System Voltage	1000V
Maximum Series Fuse Rating	15A

Components information

Cell Type	Mono-crystalline 156×156 mm (6 inch)
No. of Cells	60 (6x10)
Front Glass	3.2mm High Transmission, Low Iron, Tempered Glass
Frame	Black Anodized Aluminium Alloy
Junction Box	IP 67 Rated
Output Cables	TÜV 4.0mm ² Single Core Length 900mm
Connectors	MC4 Compatible
Back Sheet	TPT

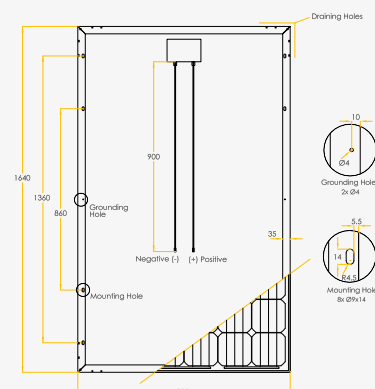


Mechanical characteristics

Dimensions	1640×992×50mm
Weight	21 kg (46.2 lbs)

Packaging configuration

Pallet Load	20 pcs / pallet
Container Load	520 pcs / 40'HQ, 204 pcs / 20'



Dimensions in mm

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS
BEFORE USING THIS PRODUCT.

Visit www.senersun.com for more information.





Made in Germany

SSM60C ALL BLACK (EU-MADE) - 245/260W

60 x 6" A-grade monocrystalline solar cells

Electrical characteristics at STC

(STC: Standard Test Conditions)

		SSM60C-245-E BL	SSM60C-250-E BL	SSM60C-255-E BL	SSM60C-260-E BL
Maximum Power (P_{max})	[Wp]	245	250	255	260
Power Tolerance	[%]	-0/+3	-0/+3	-0/+3	-0/+3
Maximum Power Voltage (V_{mpp})	[V]	29.8	30.0	30.2	30.5
Maximum Power Current (I_{mpp})	[A]	8.22	8.34	8.45	8.57
Open-Circuit Voltage (V_{oc})	[V]	37.0	37.3	37.5	37.8
Short-Circuit Current (I_{sc})	[A]	8.65	8.74	8.83	8.92
Module Efficiency	[%]	14.94	15.24	15.55	15.85
Test Conditions	-	1,000 W/m ² , (25 ± 2)°C, AM 1.5			

Electrical characteristics at NOCT

(NOCT: Nominal Operating Cell Temperature)

		SSM60C-245-E BL	SSM60C-250-E BL	SSM60C-255-E BL	SSM60C-260-E BL
Maximum Power (P_{max})	[Wp]	176	179	183	186
Maximum Power Voltage (V_{mpp})	[V]	26.7	26.9	27.1	27.3
Maximum Power Current (I_{mpp})	[A]	6.57	6.66	6.75	6.83
Open-Circuit Voltage (V_{oc})	[V]	33.5	33.7	33.9	34.2
Short-Circuit Current (I_{sc})	[A]	6.98	7.06	7.13	7.20
Test Conditions	-	800 W/m ² , NOCT, AM 1.5, Ambient temperature: 20°C, Wind speed: 1 m/s			

Reduction of module efficiency from 1,000W/m² to 200W/m²: <4% | Measuring tolerance: Pmax: ±3%, other electrical characteristics: ±10%

Temperature ratings

Temperature Coefficients of P_{max}	-0.43%/°C
Temperature Coefficients of V_{oc}	-0.33%/°C
Temperature Coefficients of I_{sc}	+0.04%/°C
Nominal Operating Cell Temperature (NOCT)	48°C ±2°C

Maximum ratings

Maximum System Voltage	1,000V
Limiting Reverse Current (I_r)	20A
Operating Temperature	-40°C to +85°C

Components information

Cell Type	Mono-crystalline 156×156 mm (6 inch)
No. of Cells	60 (6x10)
Front Glass	Transparent toughened safety glass, 3.2 mm
Frame	Black anodized aluminum frame
Junction Box	IP65 Rated, with 3 bypass diodes
Output Cables	4 mm ² solar cable length 1,000 mm
Application Class	Application class A (according to IEC 61730)
Cell Encapsulation	EVA (Ethylene Vinyl Acetate)
Back Side	Black composite film

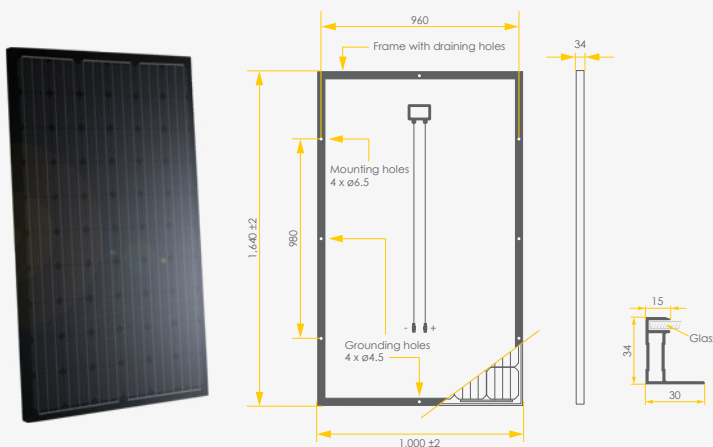


Mechanical characteristics

Dimensions	1,640 x 1,000 x 34 mm
Weight	18.2 kg

Packaging configuration

Pallet Load	29 pcs / pallet
Container Load	812 pcs / 40' HQ



Dimensions in mm

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THIS PRODUCT.

Visit www.senersun.com for more information.



SSM72C ALL BLACK - 290/300W

72 x 6" A-grade monocrystalline solar cells

Electrical characteristics at STC

(STC: Standard Test Conditions)

		SSM72C-290 BL	SSM72C-295 BL	SSM72C-300 BL
Maximum Power (P_{max})	[Wp]	290	295	300
Power Tolerance	[%]	-0/+3	-0/+3	-0/+3
Maximum Power Voltage (V_{mpp})	[V]	36.51	36.60	36.75
Maximum Power Current (I_{mpp})	[A]	7.94	8.06	8.16
Open-Circuit Voltage (V_{oc})	[V]	44.76	44.85	45.05
Short-Circuit Current (I_{sc})	[A]	8.57	8.70	8.81
Module Efficiency	[%]	14.9	15.2	15.5
Test Conditions	-	1,000 W/m ² , (25 ± 2)°C, AM 1.5		

Electrical characteristics may vary by ±5%

Temperature ratings

Temperature Coefficients of P_{max}	-0.43%/°C
Temperature Coefficients of V_{oc}	-0.3%/°C
Temperature Coefficients of I_{sc}	+0.04%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Maximum ratings

Maximum System Voltage	1000V
Maximum Series Fuse Rating	15A

Components information

Cell Type	Mono-crystalline 156×156 mm (6 inch)
No. of Cells	72 (6x12)
Front Glass	3.2mm High Transmission, Low Iron, Tempered Glass
Frame	Black Anodized Aluminium Alloy
Junction Box	IP 67 Rated
Output Cables	TÜV 4.0mm ² Single Core Length 900mm
Connectors	MC4 Compatible
Back Sheet	TPT

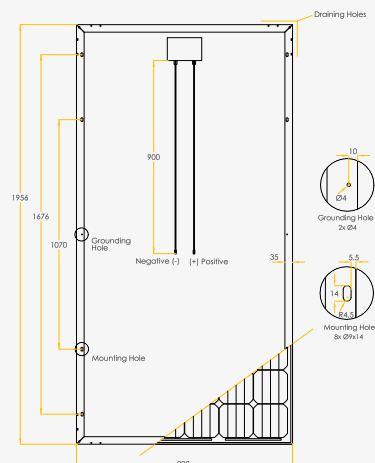


Mechanical characteristics

Dimensions	1956×992×50mm
Weight	23 kg (50.6 lbs)

Packaging configuration

Pallet Load	20 pcs / pallet
Container Load	440 pcs / 40'HQ, 170 pcs / 20'



Dimensions in mm

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS
BEFORE USING THIS PRODUCT.

Visit www.senersun.com for more information.



Introducing
the world's most reliable
polycrystalline solar panel

SPQP
Best-in-class QC

Senersun Premium Quality Program
The highest quality standards of the industry applied to every single solar panel

15.6%
Module efficiency

High module efficiency
15.6% module efficiency: increased production of electricity for each m²

-0/+3%
Positive tolerance

Guaranteed performance
A-grade components only and positive tolerance (-0/+3%)

25
-year warranty

25-year warranty
10-year product warranty
Linear 25-year power output warranty

Unique quality

The most stringent quality standards of the industry are applied to every single solar panel as part of Senersun Premium Quality Program (SPQP), the most advanced quality control program ever implemented by a solar panel manufacturer. 100% third-party validation available, for an absolute peace of mind.

This is how we make sure of the utmost reliability of every single solar panel we deliver.

Safer packaging

Because packaging is an essential part of the value chain, Senersun solar panels are shipped in a packaging specifically designed to protect them better during transportation. Our packaging also makes the handling of the panels easier and improves the user experience.

One more solution we brought up to guarantee the unique quality of our solar panels.

Linear performance warranty

Senersun panels will produce up to 103% of their rated power output at delivery. During the first year, Senersun guarantees that the actual power cannot differ by more than 3% from the specified power. From the second year onwards, the power will not decrease by more than 0.7% of the rated power per year.

Visit www.senersun.com for more information.

*Not applicable to EU-made solar panels

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS
BEFORE USING THIS PRODUCT.

Visit www.senersun.com for more information.





SSP60C - 230/245W

60 x 6" A-grade polycrystalline solar cells

Electrical characteristics at STC

(STC: Standard Test Conditions)

		SSP60C-230	SSP60C-235	SSP60C-240*	SSP60C-245*
Maximum Power (P_{max})	[Wp]	230	235	240	245
Power Tolerance	[%]	-0/+3	-0/+3	-0/+3	-0/+3
Maximum Power Voltage (V_{mpp})	[V]	30.12	30.22	30.33	30.58
Maximum Power Current (I_{mpp})	[A]	7.64	7.78	7.91	8.01
Open-Circuit Voltage (V_{oc})	[V]	36.96	37.08	37.3	38.64
Short-Circuit Current (I_{sc})	[A]	8.3	8.45	8.54	8.69
Module Efficiency	[%]	14.1	14.4	14.8	15.1
Test Conditions	-	1,000 W/m ² , (25 ± 2)°C, AM 1.5			

Electrical characteristics may vary by ±5% | * UL certification up to 235Wp, MCS certification up to 240Wp

Temperature ratings

Temperature Coefficients of P_{max}	-0.45%/°C
Temperature Coefficients of V_{oc}	-0.34%/°C
Temperature Coefficients of I_{sc}	+0.09%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Maximum ratings

Maximum System Voltage	1000VDC / 600VDC (UL)
Maximum Series Fuse Rating	15A

Components information

Cell Type	Poly-crystalline 156×156 mm (6 inch)
No. of Cells	60 (6x10)
Front Glass	3.2mm High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP 67 Rated
Output Cables	TÜV 4.0mm ² Single Core Length 900mm
Connectors	MC4 Compatible
Back Sheet	TPT

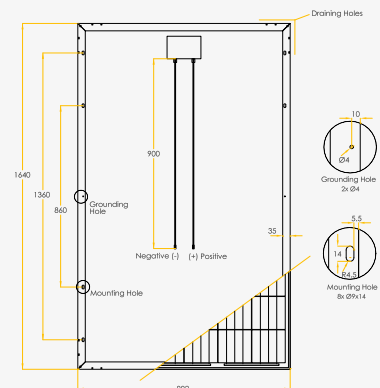


Mechanical characteristics

Dimensions	1640×992×50mm
Weight	21 kg (46.2 lbs)

Packaging configuration

Pallet Load	20 pcs / pallet
Container Load	520 pcs / 40'HQ, 204 pcs / 20'



Dimensions in mm

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THIS PRODUCT.

Visit www.senersun.com for more information.



Made in Germany

SSP60D (EU-MADE) - 240/255W

60 x 6" A-grade polycrystalline solar cells

Electrical characteristics at STC

(STC: Standard Test Conditions)

		SSP60D-240-E	SSP60D-245-E	SSP60D-250-E	SSP60D-255-E
Maximum Power (P_{max})	[Wp]	240	245	250	255
Power Tolerance	[%]	-0/+3	-0/+3	-0/+3	-0/+3
Maximum Power Voltage (V_{mpp})	[V]	29.9	30.1	30.3	30.5
Maximum Power Current (I_{mpp})	[A]	8.03	8.16	8.28	8.40
Open-Circuit Voltage (V_{oc})	[V]	37.0	37.2	37.4	37.5
Short-Circuit Current (I_{sc})	[A]	8.47	8.59	8.71	8.83
Module Efficiency	[%]	14.63	14.94	15.24	15.55
Test Conditions	-	1,000 W/m ² , (25 ± 2)°C, AM 1.5			

Electrical characteristics at NOCT

(NOCT: Nominal Operating Cell Temperature)

		SSP60D-240-E	SSP60D-245-E	SSP60D-250-E	SSP60D-255-E
Maximum Power (P_{max})	[Wp]	175	178	182	186
Maximum Power Voltage (V_{mpp})	[V]	27.3	27.4	27.6	27.8
Maximum Power Current (I_{mpp})	[A]	6.41	6.51	6.60	6.69
Open-Circuit Voltage (V_{oc})	[V]	33.8	34.0	34.1	34.3
Short-Circuit Current (I_{sc})	[A]	6.88	6.97	7.07	7.17
Test Conditions	-	800 W/m ² , NOCT, AM 1.5, Ambient temperature: 20°C, Wind speed: 1 m/s			

Reduction of module efficiency from 1,000W/m² to 200W/m²: <4% | Measuring tolerance: Pmax: ±3%, other electrical characteristics: ±10%

Temperature ratings

Temperature Coefficients of P_{max}	-0.41%/°C
Temperature Coefficients of V_{oc}	-0.32%/°C
Temperature Coefficients of I_{sc}	+0.05%/°C
Nominal Operating Cell Temperature (NOCT)	46°C ±2°C

Maximum ratings

Maximum System Voltage	1,000V
Limiting Reverse Current (I_R)	20A
Operating Temperature	-40°C to +85°C

Components information

Cell Type	Poly-crystalline 156×156 mm (6 inch)
No. of Cells	60 (6x10)
Front Glass	Transparent toughened safety glass, 3.2 mm
Frame	Anodized aluminum frame
Junction Box	IP65 Rated, with 3 bypass diodes
Output Cables	4 mm ² solar cable length 1,000 mm
Application Class	Application class A (according to IEC 61730)
Cell Encapsulation	EVA (Ethylene Vinyl Acetate)
Back Side	Composite film

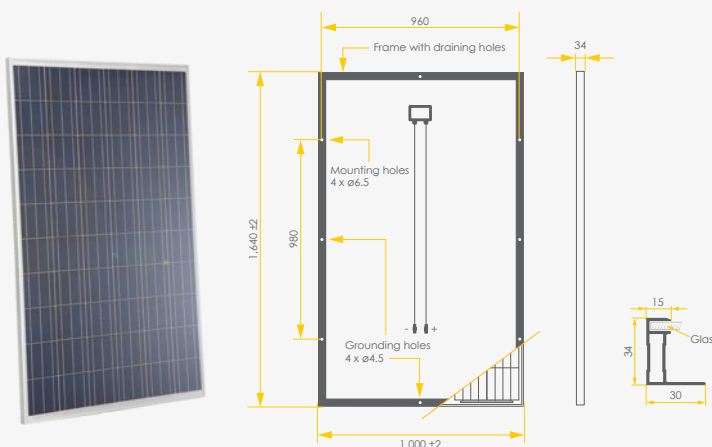


Mechanical characteristics

Dimensions	1640x1000x34 mm
Weight	18.2 kg

Packaging configuration

Pallet Load	29 pcs / pallet
Container Load	812 pcs / 40' HQ



Dimensions in mm

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THIS PRODUCT.

Visit www.senersun.com for more information.



SSP72C - 280/295W

72 x 6" A-grade polycrystalline solar cells

Electrical characteristics at STC

(STC: Standard Test Conditions)

		SSP72C-280	SSP72C-285*	SSP72C-290*	SSP72C-295*
Maximum Power (P_{max})	[Wp]	280	285	290	295
Power Tolerance	[%]	-0/+3	-0/+3	-0/+3	-0/+3
Maximum Power Voltage (V_{mpp})	[V]	36.27	36.49	36.53	36.60
Maximum Power Current (I_{mpp})	[A]	7.72	7.81	7.94	8.06
Open-Circuit Voltage (V_{oc})	[V]	44.5	44.7	44.92	45.02
Short-Circuit Current (I_{sc})	[A]	8.39	8.47	8.57	8.70
Module Efficiency	[%]	14.4	14.7	14.9	15.2
Test Conditions	-	1,000 W/m ² , (25 ± 2)°C, AM 1.5			

Electrical characteristics may vary by ±5% | * UL certification up to 280Wp, TÜV, SGS and CEC certifications up to 285Wp, MCS certification up to 290Wp

Temperature ratings

Temperature Coefficients of P_{max}	-0.45%/°C
Temperature Coefficients of V_{oc}	-0.34%/°C
Temperature Coefficients of I_{sc}	+0.09%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Maximum ratings

Maximum System Voltage	1000V
Maximum Series Fuse Rating	15A

Components information

Cell Type	Poly-crystalline 156×156 mm (6 inch)
No. of Cells	72 (6x12)
Front Glass	3.2mm High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP 67 Rated
Output Cables	TÜV 4.0mm ² Single Core Length 900mm
Connectors	MC4 Compatible
Back Sheet	TPT

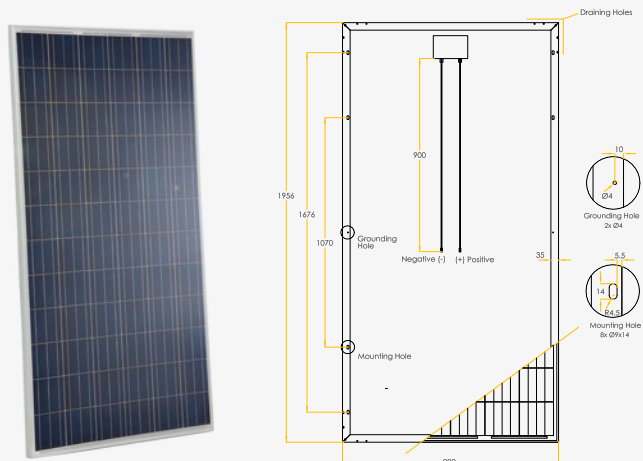


Mechanical characteristics

Dimensions	1956×992×50mm
Weight	23 kg (50.6 lbs)

Packaging configuration

Pallet Load	20 pcs / pallet
Container Load	440 pcs / 40'HQ, 170 pcs / 20'



Dimensions in mm

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THIS PRODUCT.

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The world's most reliable solar panel

SPECIAL SERIES

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SSM36A - 95/100Wp



SSM48A - 125/135Wp



SSM54A - 140/150Wp



SSM60A - 160/165Wp



SSM36C - 150/155Wp



SSM48C - 200/205Wp



SSM54C - 225/230Wp



SSP36C - 140/145Wp



SSP48C - 185/195Wp



SSP54C - 210/220Wp





Introducing
the world's most reliable
monocrystalline solar panel

SPQP
Best-in-class QC

Senersun Premium Quality Program
The highest quality standards of the industry applied to every single solar panel

15.6%
Module efficiency

High module efficiency
15.6% module efficiency: increased production of electricity for each m²

-0/+3%
Positive tolerance

Guaranteed performance
A-grade components only and positive tolerance (-0/+3%)

25
-year warranty

25-year warranty
10-year product warranty
Linear 25-year power output warranty

Unique quality

The most stringent quality standards of the industry are applied to every single solar panel as part of Senersun Premium Quality Program (SPQP), the most advanced quality control program ever implemented by a solar panel manufacturer. 100% third-party validation available, for an absolute peace of mind.

This is how we make sure of the utmost reliability of every single solar panel we deliver.

Safer packaging

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One more solution we brought up to guarantee the unique quality of our solar panels.

Linear performance warranty

Senersun panels will produce up to 103% of their rated power output at delivery. During the first year, Senersun guarantees that the actual power cannot differ by more than 3% from the specified power. From the second year onwards, the power will not decrease by more than 0.7% of the rated power per year.

Visit www.senersun.com for more information.





SSM36A - 95/100W

36 x 5" A-grade monocrystalline solar cells

Electrical characteristics at STC

(STC: Standard Test Conditions)

		SSM36A-95	SSM36A-100*
Maximum Power (P_{max})	[Wp]	95	100
Power Tolerance	[%]	-0/+3	-0/+3
Maximum Power Voltage (V_{mpp})	[V]	18.2	18.38
Maximum Power Current (I_{mpp})	[A]	5.22	5.44
Open-Circuit Voltage (V_{oc})	[V]	22.38	22.60
Short-Circuit Current (I_{sc})	[A]	5.63	5.87
Module Efficiency	[%]	14.7	15.4
Test Conditions	-	1,000 W/m ² , (25 ± 2)°C, AM 1.5	

Electrical characteristics may vary by ±5% | * TÜV and CEC certifications up to 95Wp

Temperature ratings

Temperature Coefficients of P_{max}	-0.43%/°C
Temperature Coefficients of V_{oc}	-0.3%/°C
Temperature Coefficients of I_{sc}	+0.04%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Maximum ratings

Maximum System Voltage	1000V
Maximum Series Fuse Rating	10A

Components information

Cell Type	Mono-crystalline 125×125 mm (5 inch)
No. of Cells	36 (4x9)
Front Glass	3.2mm High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP 65 Rated
Output Cables	TÜV 4.0mm ² Single Core Length 900mm
Connectors	MC4 Compatible
Back Sheet	TPT

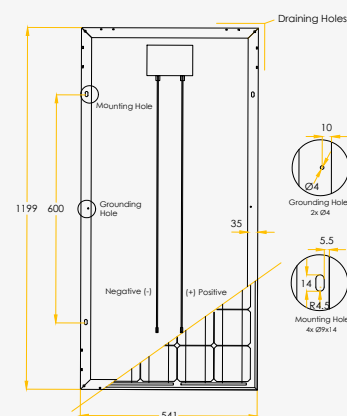


Mechanical characteristics

Dimensions	1199×541×35mm
Weight	8.7 kg (19.1 lbs)

Packaging configuration

Pallet Load	Confirmed upon order quantity
Container Load	Confirmed upon order quantity



Dimensions in mm

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS
BEFORE USING THIS PRODUCT.

Visit www.senersun.com for more information.





SSM48A - 125/135W

48 x 5" A-grade monocrystalline solar cells

Electrical characteristics at STC

(STC: Standard Test Conditions)

(STC: Standard Test Conditions)		SSM48A-125	SSM48A-130*	SSM48A-135*
Maximum Power (P_{max})	[Wp]	125	130	135
Power Tolerance	[%]	-0/+3	-0/+3	-0/+3
Maximum Power Voltage (V_{mpp})	[V]	24.2	24.4	24.63
Maximum Power Current (I_{mpp})	[A]	4.96	5.33	5.48
Open-Circuit Voltage (V_{oc})	[V]	29.7	30	30.30
Short-Circuit Current (I_{sc})	[A]	5.40	5.75	5.92
Module Efficiency	[%]	14.4	15	15.6
Test Conditions	-	1,000 W/m ² , (25 ± 2)°C, AM 1.5		

Electrical characteristics may vary by $\pm 5\%$ | * UL certification up to 125Wp, TÜV and CEC certifications up to 130Wp

Temperature ratings

Temperature Coefficients of $P_{\max}$	-0.43%/°C
Temperature Coefficients of V_{oc}	-0.3%/°C
Temperature Coefficients of I_{sc}	+0.04%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Maximum ratings

Maximum System Voltage	1000VDC / 600VDC (UL)
Maximum Series Fuse Rating	10A

Components information

Cell Type	Mono-crystalline 125×125 mm (5 inch)
No. of Cells	48 (6x8)
Front Glass	3.2mm High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP 65 Rated
Output Cables	TÜV 4.0mm² Single Core Length 900mm
Connectors	MC4 Compatible
Back Sheet	TPT

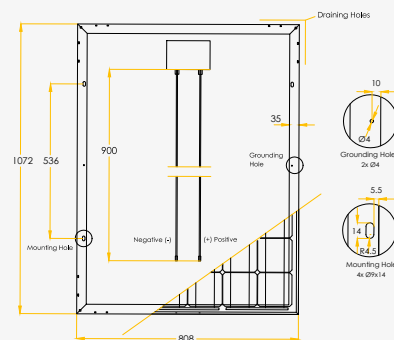


Mechanical characteristics

Dimensions	1072x808x35mm
Weight	10.8 kg (23.4 lbs)

Packaging configuration

Pallet Load	27 pcs / pallet
Container Load	1080 pcs / 40', 486 pcs / 20'



Dimensions in mm

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS
BEFORE USING THIS PRODUCT.

Visit www.senersun.com for more information.



SSM54A - 140/150W

54 x 5" A-grade monocrystalline solar cells

Electrical characteristics at STC

(STC: Standard Test Conditions)

		SSM54A-140	SSM54A-145*	SSM54A-150*
Maximum Power (P_{max})	[Wp]	140	145	150
Power Tolerance	[%]	-0/+3	-0/+3	-0/+3
Maximum Power Voltage (V_{mpp})	[V]	27.25	27.32	27.62
Maximum Power Current (I_{mpp})	[A]	5.14	5.31	5.43
Open-Circuit Voltage (V_{oc})	[V]	33.52	33.65	33.97
Short-Circuit Current (I_{sc})	[A]	5.55	5.73	5.86
Module Efficiency	[%]	14.5	15.0	15.5
Test Conditions	-	1,000 W/m ² , (25 ± 2)°C, AM 1.5		

Electrical characteristics may vary by ±5% | * UL certification up to 140Wp, TÜV and CEC certifications up to 145Wp

Temperature ratings

Temperature Coefficients of P_{max}	-0.43%/°C
Temperature Coefficients of V_{oc}	-0.3%/°C
Temperature Coefficients of I_{sc}	+0.04%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Maximum ratings

Maximum System Voltage	1000VDC / 600VDC (UL)
Maximum Series Fuse Rating	10A

Components information

Cell Type	Mono-crystalline 125×125 mm (5 inch)
No. of Cells	54 (6×9)
Front Glass	3.2mm High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP 65 Rated
Output Cables	TÜV 4.0mm ² Single Core Length 900mm
Connectors	MC4 Compatible
Back Sheet	TPT

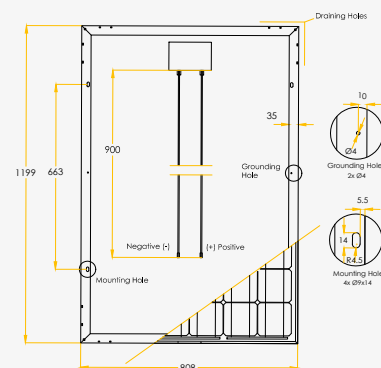


Mechanical characteristics

Dimensions	1199×808×35mm
Weight	12.5 kg (27.5 lbs)

Packaging configuration

Pallet Load	27 pcs / pallet
Container Load	972 pcs / 40', 432 pcs / 20'



Dimensions in mm

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS
BEFORE USING THIS PRODUCT.

Visit www.senersun.com for more information.





SSM60A - 160/165W

60 x 5" A-grade monocrystalline solar cells

Electrical characteristics at STC

(STC: Standard Test Conditions)

		SSM60A-160	SSM60A-165*
Maximum Power (P_{max})	[Wp]	160	165
Power Tolerance	[%]	-0/+3	-0/+3
Maximum Power Voltage (V_{mpp})	[V]	30.5	30.67
Maximum Power Current (I_{mpp})	[A]	5.26	5.38
Open-Circuit Voltage (V_{oc})	[V]	37.5	37.72
Short-Circuit Current (I_{sc})	[A]	5.68	5.7
Module Efficiency	[%]	14.5	15
Test Conditions	-	1,000 W/m ² , (25 ± 2)°C, AM 1.5	

Electrical characteristics may vary by ±5% | * TÜV and CEC certifications up to 160Wp

Temperature ratings

Temperature Coefficients of P_{max}	-0.43%/°C
Temperature Coefficients of V_{oc}	-0.3%/°C
Temperature Coefficients of I_{sc}	+0.04%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Maximum ratings

Maximum System Voltage	1000VDC / 600VDC (UL)
Maximum Series Fuse Rating	10A

Components information

Cell Type	Mono-crystalline 125×125 mm (5 inch)
No. of Cells	60 (6x10)
Front Glass	3.2mm High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP 65 Rated
Output Cables	TÜV 4.0mm ² Single Core Length 900mm
Connectors	MC4 Compatible
Back Sheet	TPT

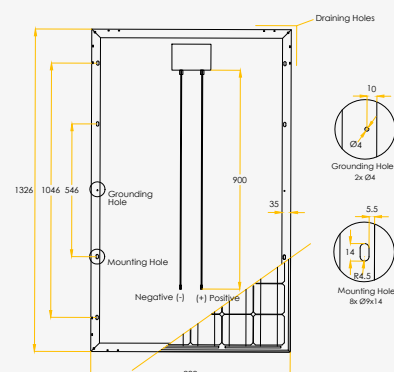


Mechanical characteristics

Dimensions	1326x808x35mm
Weight	13.6 kg

Packaging configuration

Pallet Load	27 pcs / pallet
Container Load	864 pcs / 40', 432 pcs / 20'



Dimensions in mm

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS
BEFORE USING THIS PRODUCT.

Visit www.senersun.com for more information.





SSM36C - 150/155W

36 x 6" A-grade monocrystalline solar cells

Electrical characteristics at STC

(STC: Standard Test Conditions)

		SSM36C-150	SSM36C-155*
Maximum Power (P_{max})	[Wp]	150	155
Power Tolerance	[%]	-0/+3	-0/+3
Maximum Power Voltage (V_{mpp})	[V]	18.25	18.32
Maximum Power Current (I_{mpp})	[A]	8.22	8.46
Open-Circuit Voltage (V_{oc})	[V]	22.45	22.53
Short-Circuit Current (I_{sc})	[A]	8.87	9.14
Module Efficiency	[%]	15	15.5
Test Conditions	-	1,000 W/m ² , (25 ± 2)°C, AM 1.5	

Electrical characteristics may vary by ±5% | * TÜV and CEC certifications up to 150Wp

Temperature ratings

Temperature Coefficients of P_{max}	-0.43%/°C
Temperature Coefficients of V_{oc}	-0.3%/°C
Temperature Coefficients of I_{sc}	+0.04%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Maximum ratings

Maximum System Voltage	1000V / 600VDC (UL)
Maximum Series Fuse Rating	15A

Components information

Cell Type	Mono-crystalline 156×156 mm (6 inch)
No. of Cells	36 (6x6)
Front Glass	3.2mm High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP 67 Rated
Output Cables	TÜV 4.0mm ² Single Core Length 900mm
Connectors	MC4 Compatible
Back Sheet	TPT

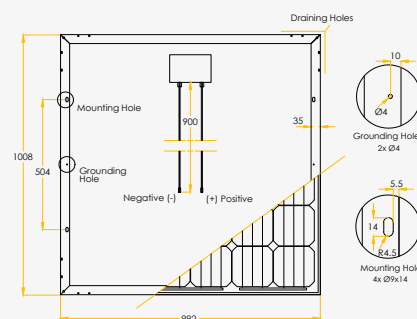


Mechanical characteristics

Dimensions	1008×992×50mm
Weight	13.5 kg (29.7 lbs)

Packaging configuration

Pallet Load	Confirmed upon order quantity
Container Load	Confirmed upon order quantity



Dimensions in mm

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS
BEFORE USING THIS PRODUCT.

Visit www.senersun.com for more information.





SSM48C - 200/205W

48 x 6" A-grade monocrystalline solar cells

Electrical characteristics at STC

(STC: Standard Test Conditions)

		SSM48C-200	SSM48C-205*
Maximum Power (P_{max})	[Wp]	200	205
Power Tolerance	[%]	-0/+3	-0/+3
Maximum Power Voltage (V_{mpp})	[V]	24.45	24.52
Maximum Power Current (I_{mpp})	[A]	8.18	8.36
Open-Circuit Voltage (V_{oc})	[V]	30.07	30.16
Short-Circuit Current (I_{sc})	[A]	8.83	9.03
Module Efficiency	[%]	15.2	15.6
Test Conditions	-	1,000 W/m ² , (25 ± 2)°C, AM 1.5	

Electrical characteristics may vary by ±5% | * TÜV and CEC certifications up to 200Wp

Temperature ratings

Temperature Coefficients of P_{max}	-0.43%/°C
Temperature Coefficients of V_{oc}	-0.3%/°C
Temperature Coefficients of I_{sc}	+0.04%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Maximum ratings

Maximum System Voltage	1000VDC / 600VDC (UL)
Maximum Series Fuse Rating	15A

Components information

Cell Type	Mono-crystalline 156×156 mm (6 inch)
No. of Cells	48 (6x8)
Front Glass	3.2mm High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP 67 Rated
Output Cables	TÜV 4.0mm ² Single Core Length 900mm
Connectors	MC4 Compatible
Back Sheet	TPT

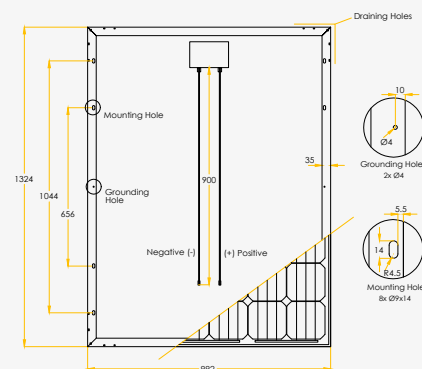


Mechanical characteristics

Dimensions	1324×992×50mm
Weight	16.5 kg (36.4 lbs)

Packaging configuration

Pallet Load	20 pcs / pallet
Container Load	640 pcs / 40'HQ, 272 pcs / 20'



Dimensions in mm

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS
BEFORE USING THIS PRODUCT.

Visit www.senersun.com for more information.





SSM54C - 225/230W

54 x 6" A-grade monocrystalline solar cells

Electrical characteristics at STC

(STC: Standard Test Conditions)

		SSM54C-225	SSM54C-230*
Maximum Power (P_{max})	[Wp]	225	230
Power Tolerance	[%]	-0/+3	-0/+3
Maximum Power Voltage (V_{mpp})	[V]	27.51	27.61
Maximum Power Current (I_{mpp})	[A]	8.18	8.33
Open-Circuit Voltage (V_{oc})	[V]	33.84	33.96
Short-Circuit Current (I_{sc})	[A]	8.83	9.54
Module Efficiency	[%]	15.3	15.6
Test Conditions	-	1,000 W/m ² , (25 ± 2)°C, AM 1.5	

Electrical characteristics may vary by ±5% | * TÜV and CEC certifications up to 225Wp

Temperature ratings

Temperature Coefficients of P_{max}	-0.43%/°C
Temperature Coefficients of V_{oc}	-0.3%/°C
Temperature Coefficients of I_{sc}	+0.04%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Maximum ratings

Maximum System Voltage	1000VDC / 600VDC (UL)
Maximum Series Fuse Rating	15A

Components information

Cell Type	Mono-crystalline 156×156 mm (6 inch)
No. of Cells	54 (6×9)
Front Glass	3.2mm High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP 67 Rated
Output Cables	TÜV 4.0mm ² Single Core Length 900mm
Connectors	MC4 Compatible
Back Sheet	TPT

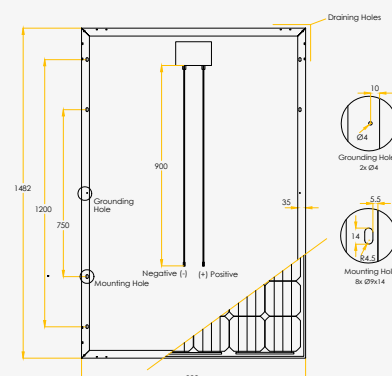


Mechanical characteristics

Dimensions	1482×992×50mm
Weight	18.3 kg (40.3 lbs)

Packaging configuration

Pallet Load	20 pcs / pallet
Container Load	560 pcs / 40'HQ, 238 pcs / 20'



Dimensions in mm

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS
BEFORE USING THIS PRODUCT.

Visit www.senersun.com for more information.





Introducing
the world's most reliable
polycrystalline solar panel

SPQP
Best-in-class QC

Senersun Premium Quality Program
The highest quality standards of the industry applied to every single solar panel

15%
Module efficiency

High module efficiency
15% module efficiency: increased production of electricity for each m²

-0/+3%
Positive tolerance

Guaranteed performance
A-grade components only and positive tolerance (-0/+3%)

25
-year warranty

25-year warranty
10-year product warranty
Linear 25-year power output warranty

Unique quality

The most stringent quality standards of the industry are applied to every single solar panel as part of Senersun Premium Quality Program (SPQP), the most advanced quality control program ever implemented by a solar panel manufacturer. 100% third-party validation available, for an absolute peace of mind.

This is how we make sure of the utmost reliability of every single solar panel we deliver.

Safer packaging

Because packaging is an essential part of the value chain, Senersun solar panels are shipped in a packaging specifically designed to protect them better during transportation. Our packaging also makes the handling of the panels easier and improves the user experience.

One more solution we brought up to guarantee the unique quality of our solar panels.

Linear performance warranty

Senersun panels will produce up to 103% of their rated power output at delivery. During the first year, Senersun guarantees that the actual power cannot differ by more than 3% from the specified power. From the second year onwards, the power will not decrease by more than 0.7% of the rated power per year.

Visit www.senersun.com for more information.



SSP36C - 140/145W

36 x 6" A-grade polycrystalline solar cells

Electrical characteristics at STC

(STC: Standard Test Conditions)

		SSP36C-140	SSM36C-145*
Maximum Power (P_{max})	[Wp]	140	145
Power Tolerance	[%]	-0/+3	-0/+3
Maximum Power Voltage (V_{mpp})	[V]	18.13	18.24
Maximum Power Current (I_{mpp})	[A]	7.72	7.95
Open-Circuit Voltage (V_{oc})	[V]	22.25	22.44
Short-Circuit Current (I_{sc})	[A]	8.39	8.58
Module Efficiency	[%]	14	14.5
Test Conditions	-	1,000 W/m ² , (25 ± 2)°C, AM 1.5	

Electrical characteristics may vary by ±5% | * UL certification up to 140Wp

Temperature ratings

Temperature Coefficients of P_{max}	-0.45%/°C
Temperature Coefficients of V_{oc}	-0.34%/°C
Temperature Coefficients of I_{sc}	+0.09%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Maximum ratings

Maximum System Voltage	1000V
Maximum Series Fuse Rating	15A

Components information

Cell Type	Poly-crystalline 156×156 mm (6 inch)
No. of Cells	36 (6x6)
Front Glass	3.2mm High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP 67 Rated
Output Cables	TÜV 4.0mm ² Single Core Length 900mm
Connectors	MC4 Compatible
Back Sheet	TPT



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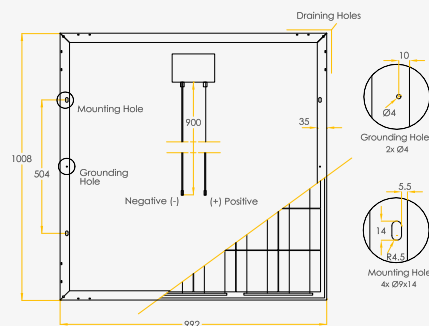
Mechanical characteristics

Dimensions	1008×992×50mm*
Weight	13.5 kg (29.7 lbs)

*UL Certified: 1008×992×35mm

Packaging configuration

Pallet Load	Confirmed upon order quantity
Container Load	Confirmed upon order quantity



Dimensions in mm

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS
BEFORE USING THIS PRODUCT.

Visit www.senersun.com for more information.





SSP48C - 185/195W

48 x 6" A-grade polycrystalline solar cells

Electrical characteristics at STC

(STC: Standard Test Conditions)

		SSP48C-185	SSP48C-190*	SSP48C-195*
Maximum Power (P_{max})	[Wp]	185	190	195
Power Tolerance	[%]	-0/+3	-0/+3	-0/+3
Maximum Power Voltage (V_{mpp})	[V]	24.1	24.2	24.32
Maximum Power Current (I_{mpp})	[A]	7.68	7.85	8.02
Open-Circuit Voltage (V_{oc})	[V]	29.57	30	30.2
Short-Circuit Current (I_{sc})	[A]	8.34	8.47	8.66
Module Efficiency	[%]	14.1	14.5	14.8
Test Conditions	-	1,000 W/m ² , (25 ± 2)°C, AM 1.5		

Electrical characteristics may vary by ±5% | * UL certification up to 185Wp, TÜV, CEC and SGS certifications up to 190Wp

Temperature ratings

Temperature Coefficients of P_{max}	-0.45%/°C
Temperature Coefficients of V_{oc}	-0.34%/°C
Temperature Coefficients of I_{sc}	+0.09%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Maximum ratings

Maximum System Voltage	1000V
Maximum Series Fuse Rating	15A

Components information

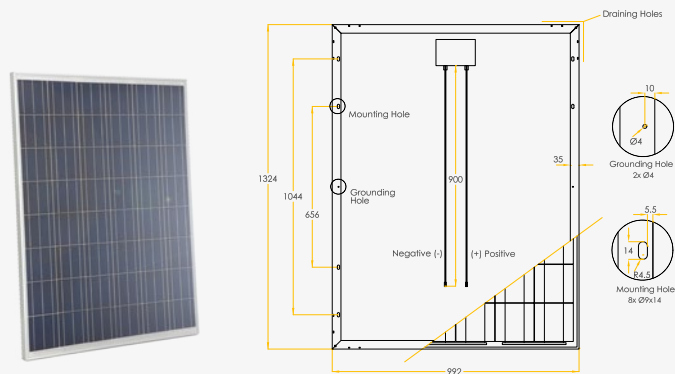
Cell Type	Poly-crystalline 156×156 mm (6 inch)
No. of Cells	48 (6x8)
Front Glass	3.2mm High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP 67 Rated
Output Cables	TÜV 4.0mm ² Single Core Length 900mm
Connectors	MC4 Compatible
Back Sheet	TPT

Mechanical characteristics

Dimensions	1324×992×50mm
Weight	16.5 kg (36.3 lbs)

Packaging configuration

Pallet Load	20 pcs / pallet
Container Load	640 pcs / 40'HQ, 272 pcs / 20'



Dimensions in mm

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THIS PRODUCT.

Visit www.senersun.com for more information.





SSP54C - 210/220W

54 x 6" A-grade polycrystalline solar cells

Electrical characteristics at STC

(STC: Standard Test Conditions)

		SSP54C-210	SSP54C-215*	SSP54C-220*
Maximum Power (P_{max})	[Wp]	210	215	220
Power Tolerance	[%]	-0/+3	-0/+3	-0/+3
Maximum Power Voltage (V_{mpp})	[V]	27.2	27.31	27.40
Maximum Power Current (I_{mpp})	[A]	7.72	7.87	8.03
Open-Circuit Voltage (V_{oc})	[V]	33.37	33.45	33.70
Short-Circuit Current (I_{sc})	[A]	8.39	8.5	8.67
Module Efficiency	[%]	14.3	14.6	15
Test Conditions	-	1,000 W/m ² , (25 ± 2)°C, AM 1.5		

Electrical characteristics may vary by ±5% | * UL certification up to 210Wp, TÜV and CEC certifications up to 215Wp

Temperature ratings

Temperature Coefficients of P_{max}	-0.45%/°C
Temperature Coefficients of V_{oc}	-0.34%/°C
Temperature Coefficients of I_{sc}	+0.09%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Maximum ratings

Maximum System Voltage	1000VDC / 600VDC (UL)
Maximum Series Fuse Rating	15A

Components information

Cell Type	Poly-crystalline 156×156 mm (6 inch)
No. of Cells	54 (6x9)
Front Glass	3.2mm High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP 67 Rated
Output Cables	TÜV 4.0mm ² Single Core Length 900mm
Connectors	MC4 Compatible
Back Sheet	TPT

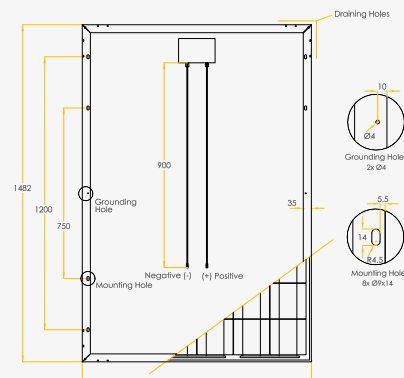


Mechanical characteristics

Dimensions	1482×992×50mm
Weight	18.3 kg (40.3 lbs)

Packaging configuration

Pallet Load	20 pcs / pallet
Container Load	560 pcs / 40'HQ, 238 pcs / 20'



Dimensions in mm

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THIS PRODUCT.

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