



Sun 2 Earth
Solar
Mono Series

Mono 36Cells Series (25 Watt to 90 Watt)

Our Mono Crystalline Series product widely use in Solar Integrated Street Light (Solar all in one street light), also this product suites with MPPT charge controller.

- Small Home Lighting System
- Solar Street Light
- Solar Torch
- Mobile Charger
- Solar Telecom solution
- Electrical Vehicle Charging station
- Roof Top Off Grid solution
- Traffic control System
- Solar Water Pumps

Electrical Characteristics

| Module Type | S2EM025 | S2EM030 | S2EM040 | S2EM050 | S2EM060 | S2EM075 | S2EM090 |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|
| Pmax (W) | 25.00 | 30.00 | 40.00 | 50.00 | 60.00 | 75.00 | 90.00 |
| Vmax (V) | 20.74 | 20.74 | 20.74 | 20.74 | 20.74 | 20.74 | 20.06 |
| Imax (A) | 1.22 | 1.48 | 1.96 | 2.45 | 3.02 | 3.64 | 4.60 |
| Voc (V) | 24.54 | 24.54 | 24.54 | 24.54 | 24.54 | 24.54 | 23.57 |
| Isc (A) | 1.30 | 1.58 | 2.09 | 2.61 | 3.22 | 3.88 | 4.86 |
| Module Efficiency (%) | 16.00 | 15.90 | 16.60 | 17.25 | 17.65 | 18.10 | 17.50 |

Mechanical Characteristics

| L X W X T | 440X355X 17 | 545X345X 17 | 640X355X 35 | 430X665X 35 | 515X665X 35 | 605X665 X35 | 775X665X 35 |
|-------------------------------------|---|----------------|----------------|----------------|----------------|----------------|----------------|
| Modunting Hole (Y)mm | 240.00 | 240.00 | 300.00 | 260.00 | 300.00 | 300.00 | 500.00 |
| Modunting Hole (X)mm | 332.00 | 322.00 | 326.00 | 636.00 | 636.00 | 636.00 | 636.00 |
| Cell Per Module/Arrangement | 36 / 18X2 | 36 / 18X2 | 36 / 18X2 | 36 / 9X4 | 36 / 9X4 | 36 / 9X4 | 36 / 9X4 |
| Cell Type | Mono PERC | | | | | | |
| Front Cover (Materail/Thickness) | tempered & Low Iron Glass , 3.2 / 4.0mm | | | | | | |
| Enacapsulate | Ethylene Vinyl Acetate | | | | | | |
| Frame | Anodized Aluminium | | | | | | |
| JB | IP65 Rated with bypass diode | | | | | | |
| Connector | As per Customer Requirement (Optional) | | | | | | |
| Cable | As per Customer Requirement (Optional) | | | | | | |

*Standard Test condition (STC): 1000W/m² irradiance, Air Mass 1.5 and 25°C cell temperature. Measuring Uncertainty +/-3%

Refer installation manual instructions & sun2earth warranty statement for terms and condition.

Sun2Earth Solar reserves the right to change the specifications without prior notice.

Mono 36Cells Series (100 Watt to 200 Watt)

Key Feature:

- 1) Excellent module efficiency Solar cell efficiency up to 21.2% Module efficiency up to 18%
- 2) High performance Higher PV Energy yield even under low light and cloudy conditions
- 3) Reliability Premium quality raw materials and advanced manufacturing processes guarantees the reliability of our modules
- 4) Positive tolerance of up to 3% delivers higher output reliability for our all modules.
- 5) EL Tested (ELECTRO LUMINESCENCE) 100% EL double inspection
- 6) PID resistant and free of snail trails Increased module robustness to minimize micro-cracks
- 7) Resistant: PID Resistant

Electrical Characteristics

| Module Type | S2EM100 | S2EM130 | S2EM140 | S2EM150 | S2EM180 | S2EM190 | S2EM200 |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|
| Pmax (W) | 100.00 | 130.00 | 140.00 | 150.00 | 180.00 | 190.00 | 200.00 |
| Vmax (V) | 20.74 | 20.60 | 20.60 | 20.60 | 20.06 | 20.67 | 20.74 |
| I _{max} (A) | 4.89 | 6.46 | 6.83 | 7.37 | 9.20 | 9.56 | 9.79 |
| Voc (V) | 24.54 | 24.25 | 24.25 | 24.25 | 23.57 | 24.39 | 24.54 |
| Isc (A) | 5.21 | 6.94 | 7.34 | 7.93 | 9.71 | 10.13 | 10.43 |
| Module Efficiency (%) | 19.53 | 18.98 | 18.31 | 19.61 | 18.23 | 19.24 | 20.25 |

Mechanical Characteristics

| | | | | | | | |
|----------------------------------|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| L X W X T | 775X665 X35 | 1010X665 X35 | 1155X665 X35 | 1155X665 X35 | 1485X665 X35 | 1485X665 X35 | 1485X665 X35 |
| Mounting Hole (Y)mm | 500.00 | 600.00 | 600.00 | 600.00 | 660.00 | 750.00 | 750.00 |
| Mounting Hole (X)mm | 636.00 | 636.00 | 636.00 | 636.00 | 636.00 | 636.00 | 636.00 |
| Cell Per Module/Arrangement | 36 / 9X4 | 36 / 9X4 | 36 / 9X4 | 36 / 9X4 | 36 / 9X4 | 36 / 9X4 | 36 / 9X4 |
| Cell Type | Mono PERC | | | | | | |
| Front Cover (Material/Thickness) | tempered & Low Iron Glass , 3.2 / 4.0mm | | | | | | |
| Encapsulate | Ethylene Vinyl Acetate | | | | | | |
| Frame | Anodized Aluminium | | | | | | |
| JB | IP65 Rated with bypass diode | | | | | | |
| Connector | As per Customer Requirement (Optional) | | | | | | |
| Cable | As per Customer Requirement (Optional) | | | | | | |

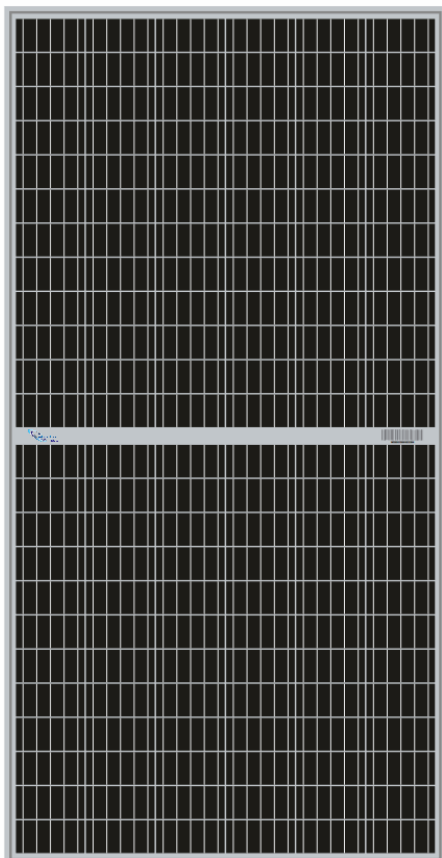
*Standard Test condition (STC): 1000W/m² irradiance, Air Mass 1.5 and 25°C cell temperature. Measuring Uncertainty +/-3%

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MONO HalfCut (380 Watt to 400 Watt)

S2EM380 to S2EM400



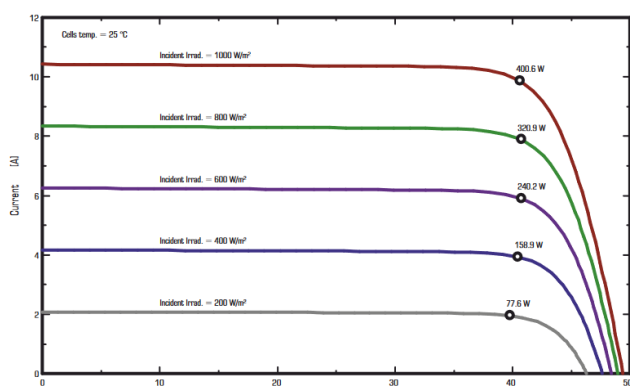
Electrical Parameters at STC (AM 1.5, 1000 W/m², 25°C)

Electrical Characteristics

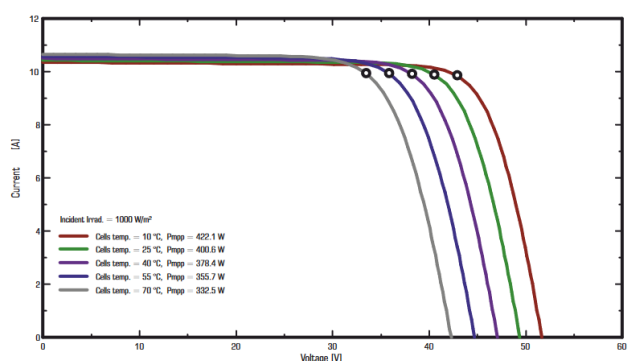
| Module Type | S2EM380 | S2EM385 | S2EM390 | S2EM395 | S2EM400 |
|-----------------------|---------|---------|---------|---------|---------|
| Pmax (W) | 380.00 | 385.00 | 390.00 | 395.00 | 400.00 |
| Vmax (V) | 39.07 | 39.32 | 39.56 | 39.81 | 40.07 |
| Imax (A) | 9.75 | 9.82 | 9.88 | 9.95 | 10.02 |
| Voc (V) | 48.14 | 48.45 | 48.76 | 49.07 | 49.39 |
| Isc (A) | 10.16 | 10.22 | 10.29 | 10.35 | 10.42 |
| Module Efficiency (%) | 18.88 | 19.84 | 20.09 | 20.34 | 20.59 |

Electrical Parameters at NOCT (800 W/m², AM 1.5, 20°C, wind speed 1 m/sec)

| | | | | | |
|----------|-------|-------|-------|-------|-------|
| Pmax (W) | 282.7 | 286.7 | 290.2 | 294.1 | 297.8 |
| Vmax (V) | 36.58 | 26.84 | 3.06 | 37.32 | 37.55 |
| Imax (A) | 7.73 | 7.78 | 7.83 | 7.88 | 7.93 |
| Voc (V) | 44.73 | 45.01 | 45.29 | 45.58 | 45.88 |
| Isc (A) | 8.21 | 8.25 | 8.31 | 8.36 | 8.42 |



I-V VARIATION WITH IRRADIANCE



I-V VARIATION WITH TEMPERATURE

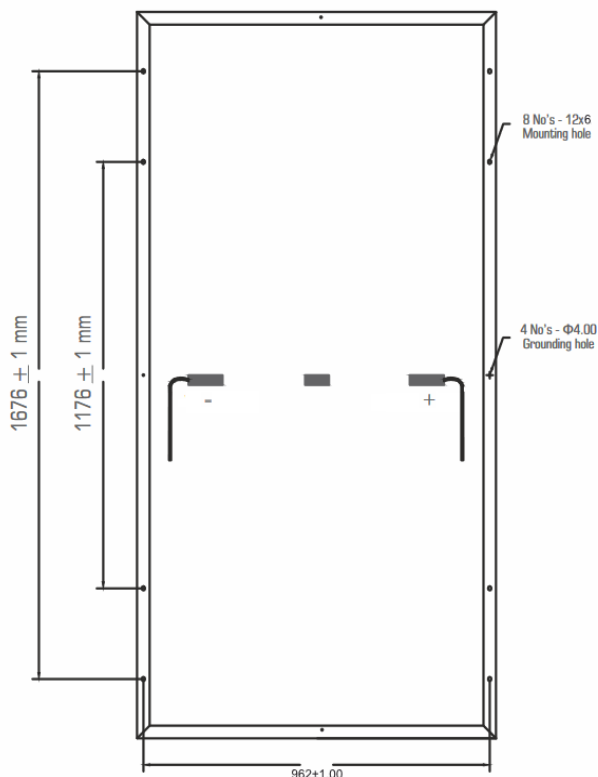
*Standard Test condition (STC): 1000W/m² irradiance, Air Mass 1.5 and 25°C cell temperature. Measuring Uncertainty +/-3%

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MONO HalfCut (380 Watt to 400 Watt)

S2EM380 to S2EM400



| Mechanical Characteristics | |
|--|---|
| L X W X T | 2007mm X 1003mm X 35mm |
| Front Cover | tempered & Low Iron Glass ARC Glass, 3.2 / 4.0mm |
| Encapsulate | PID Free & UV Resistant Ethylene Vinyl Acetate |
| Frame | Anodized Aluminium frame with twin wall profile |
| JB | IP68 RATED / WATERPROOF PPO |
| Connector | MC4 Connectors |
| Cable | 4Sqmm & 500mm |
| Cells | 144 (12X6) (12X6) Mono-crystalline PERC solar cells |
| Back sheet | Composite Film |
| Mechanical Load Test | Snow Load Upto 5400Pa / Wind Load Upto 2400Pa |
| Maximum Serise Fuse Rating | 15A |
| Temperature Co-Efficient (Tc) & Permissible Operating Conditions | |
| Tc of Open Circuit Voltage (β) | -0.027 % / 'C |
| Tc of Open Circuit Current (α) | 0.05 % / 'C |
| Tc of Power (γ) | -0.37 % / 'C |
| Maximum System Voltage | 1500V |
| NOCT | 43 +/- 2 ° C |
| Temperature Range | - 40 ° C to + 85 ° C |

Mono 10 Watt - 30 Watt

32 Cells

Our Mono Crystalline Series is the most versatile module. This is the most innovative series with high current and good charging capacity for the 12V batteries, this product widely use in Solar Integrated Street Light (Solar all in one street light).

- Small Home Lighting System
- Solar Street Light
- Solar Torch
- Mobile Charger
- Solar Telecom solution
- Electrical Vehicle Charging station
- Roof Top Off Grid solution
- Traffic control System
- Solar Water Pumps

| Electrical Characteristics | | | |
|----------------------------------|---|-------------|-------------|
| Module Type | S2EM010-32C | S2EM020-32C | S2EM030-32C |
| Pmax (W) | 10 | 20.00 | 30.00 |
| Vmax (V) | 18.31 | 18.31 | 18.40 |
| Imax (A) | 0.60 | 1.21 | 1.70 |
| Voc (V) | 21.56 | 21.56 | 21.56 |
| Isc (A) | 0.65 | 1.30 | 1.82 |
| Module Efficiency (%) | 11.43 | 12.80 | 15.96 |
| Mechanical Characteristics | | | |
| L X W X T | 300X355X17 | 440X355X17 | 545X355X17 |
| Mounting Hole (Y)mm | 125.00 | 220.00 | 272.50 |
| Mounting Hole (X)mm | 332.00 | 332.00 | 322.00 |
| Cell Per Module/Arrangement | 32 / 8X2 | 32 / 16X2 | 32 / 16X2 |
| Cell Type | Mono PERC | | |
| Front Cover (Material/Thickness) | tempered & Low Iron Glass , 3.2 / 4.0mm | | |
| Encapsulate | Ethylene Vinyl Acetate | | |
| Frame | Anodized Aluminium | | |
| JB | IP65 Rated JB | | |
| Connector | As per Customer Requirement (Optional) | | |
| Cable | As per Customer Requirement (Optional) | | |

Mono 10 Watt - 30 Watt 32 Cells

Mono 40 Watt - 150 Watt

32 Cells

| Electrical Characteristics | | | | | | | |
|----------------------------------|---|-------------|-------------|-------------|-------------|-------------|-------------|
| Module Type | S2EM040-32C | S2EM050-32C | S2EM060-32C | S2EM075-32C | S2EM100-32C | S2EM135-32C | S2EM150-32C |
| Pmax (W) | 40.00 | 50.00 | 60.00 | 75.00 | 100.00 | 135.00 | 150.00 |
| Vmax (V) | 18.31 | 18.31 | 18.31 | 18.31 | 18.44 | 18.31 | 18.31 |
| I _{max} (A) | 2.25 | 2.74 | 3.35 | 4.14 | 5.47 | 7.37 | 8.34 |
| Voc (V) | 21.56 | 21.56 | 21.56 | 21.56 | 21.81 | 21.56 | 21.56 |
| I _{sc} (A) | 2.42 | 2.95 | 3.60 | 4.45 | 5.83 | 7.93 | 8.96 |
| Module Efficiency (%) | 16.69 | 17.49 | 17.52 | 18.19 | 19.53 | 19.71 | 19.61 |
| Mechanical Characteristics | | | | | | | |
| L X W X T | 640X355X30 | 430X665X30 | 515X665X30 | 620X665X30 | 770X665X30 | 1030X665X30 | 1150X665X30 |
| Mounting Hole (Y)mm | 300.00 | 260.00 | 300.00 | 300 | 500 | 600 | 600 |
| Mounting Hole (X)mm | 326 | 636 | 636 | 636 | 636 | 636 | 636 |
| Cell Per Module/Arrangement | 32 / 16X2 | 32 / 8X4 | 32 / 8X4 | 32 / 8X4 | 32 / 8X4 | 32 / 8X4 | 32 / 8X4 |
| Cell Type | Mono PERC | | | | | | |
| Front Cover (Material/Thickness) | tempered & Low Iron Glass , 3.2 / 4.0mm | | | | | | |
| Encapsulate | Ethylene Vinyl Acetate | | | | | | |
| Frame | Anodized Aluminium | | | | | | |
| JB | IP65 Rated with bypass diode | | | | | | |
| Connector | As per Customer Requirement (Optional) | | | | | | |
| Cable | As per Customer Requirement (Optional) | | | | | | |

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