

SSM50-36-5



Solar Panel Mono 50W

Rating: Not Rated Yet  
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Description

| Model                                                                                                                                                                                                                                                       | Pmax | Vmp  | Imp(A) | Voc  | Isc(A) | Size (mm)    | Solar Cells      | Weight        | Isc(D) | Voc  | Imp(A) | Vmp  | Pmax        | Model |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|--------|------|--------|--------------|------------------|---------------|--------|------|--------|------|-------------|-------|
| 200W                                                                                                                                                                                                                                                        | 5.52 | 6.07 | 5.18   | 4.56 | 165W   |              |                  |               |        |      |        |      |             |       |
| 190W                                                                                                                                                                                                                                                        | 5.24 | 5.77 | 4.84   | 4.29 | 155W   |              |                  |               |        |      |        |      |             |       |
| SSMXX-190W                                                                                                                                                                                                                                                  | 5.11 | 5.62 | 4.69   | 4.15 | 36.2V  | 125X125mm    | 72 Pcs (6X12Pcs) | 18kg          | 43.0V  | 4.15 | 36.2V  | 155W | SSPXXX-72-5 |       |
| 180W                                                                                                                                                                                                                                                        | 4.97 | 5.48 |        |      |        |              |                  |               |        |      |        |      |             |       |
| 170W                                                                                                                                                                                                                                                        |      |      |        |      |        |              |                  |               |        |      |        |      |             |       |
| Less                                                                                                                                                                                                                                                        |      |      |        |      |        |              |                  |               |        |      |        |      |             |       |
| 130W                                                                                                                                                                                                                                                        | 3.65 | 4.01 | 3.42   | 3.11 | 110W   |              |                  |               |        |      |        |      |             |       |
| 120W                                                                                                                                                                                                                                                        | 3.41 | 3.86 | 3.11   | 2.82 | 100W   |              |                  |               |        |      |        |      |             |       |
| SSMXX-120W                                                                                                                                                                                                                                                  | 3.37 | 3.73 | 2.95   | 2.68 | 35.4V  | 125X63mm     | 72 Pcs (6X12Pcs) | 10.5kg / 71kg | 43.1V  | 2.68 | 35.4V  | 100W | SSPXXX-72-5 |       |
| 110W                                                                                                                                                                                                                                                        | 3.23 | 3.55 |        |      |        |              |                  |               |        |      |        |      |             |       |
| Less                                                                                                                                                                                                                                                        |      |      |        |      |        |              |                  |               |        |      |        |      |             |       |
| 95W                                                                                                                                                                                                                                                         | 5.51 | 6.36 | 5.12   | 4.45 | 80W    |              |                  |               |        |      |        |      |             |       |
| SSMXX-95W                                                                                                                                                                                                                                                   | 5.23 | 6.04 | 4.8    | 4.16 | 75W    |              |                  |               |        |      |        |      |             |       |
| 80W                                                                                                                                                                                                                                                         | 4.96 | 5.72 | 4.27   | 3.88 | 35.4V  | 125X125mm    | 36 Pcs (408Pcs)  | 7.8kg         | 43.1V  | 3.88 | 35.4V  | 75W  | SSPXXX-36-5 |       |
| 70W                                                                                                                                                                                                                                                         | 4.69 | 5.4  |        |      |        |              |                  |               |        |      |        |      |             |       |
| Less                                                                                                                                                                                                                                                        |      |      |        |      |        |              |                  |               |        |      |        |      |             |       |
| 50W                                                                                                                                                                                                                                                         | 7.89 | 3.18 | 2.56   | 2.33 | 40W    |              |                  |               |        |      |        |      |             |       |
| SSMXX-45W                                                                                                                                                                                                                                                   | 7.6  | 2.86 | 2.24   | 2.04 | 30W    |              |                  |               |        |      |        |      |             |       |
| 35W                                                                                                                                                                                                                                                         | 7.33 | 2.55 | 1.92   | 1.75 | 17.2V  | 125X62.5 mm  | 36 Pcs (408Pcs)  | 3.8 kg        | 31.6V  | 1.75 | 17.2V  | 30W  | SSPXXX-36-5 |       |
| 25W                                                                                                                                                                                                                                                         | 7.03 | 2.23 |        |      |        |              |                  |               |        |      |        |      |             |       |
| Less                                                                                                                                                                                                                                                        |      |      |        |      |        |              |                  |               |        |      |        |      |             |       |
| 30W                                                                                                                                                                                                                                                         | 1.91 | 2.1  | 1.79   | 1.63 | 20W    |              |                  |               |        |      |        |      |             |       |
| SSMXX-25W                                                                                                                                                                                                                                                   | 1.74 | 1.91 | 1.6    | 1.45 | 20W    |              |                  |               |        |      |        |      |             |       |
| 20W                                                                                                                                                                                                                                                         | 1.62 | 1.73 | 1.41   | 1.28 | 17.2V  | 125X41.7 mm  | 36 Pcs (408Pcs)  | 2.7 kg        | 31.6V  | 1.28 | 17.2V  | 20W  | SSPXXX-36-5 |       |
| 15W                                                                                                                                                                                                                                                         | 1.45 | 1.52 |        |      |        |              |                  |               |        |      |        |      |             |       |
| Less                                                                                                                                                                                                                                                        |      |      |        |      |        |              |                  |               |        |      |        |      |             |       |
| 20W                                                                                                                                                                                                                                                         | 1.45 | 1.52 | 1.36   | 1.23 | 21W    |              |                  |               |        |      |        |      |             |       |
| SSMXX-14W                                                                                                                                                                                                                                                   | 1.38 | 1.53 | 1.3    | 1.17 | 20W    |              |                  |               |        |      |        |      |             |       |
| 13W                                                                                                                                                                                                                                                         | 1.33 | 1.47 | 1.22   | 1.11 | 17.2V  | 125X31.25 mm | 36 Pcs (408Pcs)  | 2 kg          | 31.6V  | 1.11 | 17.2V  | 19W  | SSPXXX-36-5 |       |
| 12W                                                                                                                                                                                                                                                         | 1.27 | 1.4  |        |      |        |              |                  |               |        |      |        |      |             |       |
| Less                                                                                                                                                                                                                                                        |      |      |        |      |        |              |                  |               |        |      |        |      |             |       |
| 16W                                                                                                                                                                                                                                                         | 0.93 | 1.02 | 0.88   | 0.8  | 14W    |              |                  |               |        |      |        |      |             |       |
| SSMXX-15W                                                                                                                                                                                                                                                   | 0.87 | 0.96 | 0.84   | 0.76 | 13W    |              |                  |               |        |      |        |      |             |       |
| 14W                                                                                                                                                                                                                                                         | 0.81 | 0.9  | 0.77   | 0.7  | 12W    |              |                  |               |        |      |        |      |             |       |
| 12W                                                                                                                                                                                                                                                         | 0.7  | 0.77 |        |      |        |              |                  |               |        |      |        |      |             |       |
| Less                                                                                                                                                                                                                                                        |      |      |        |      |        |              |                  |               |        |      |        |      |             |       |
| 11W                                                                                                                                                                                                                                                         | 0.84 | 0.7  | 0.68   | 0.63 | 9W     |              |                  |               |        |      |        |      |             |       |
| SSMXX-9W                                                                                                                                                                                                                                                    | 0.58 | 0.64 | 0.52   | 0.47 | 9W     |              |                  |               |        |      |        |      |             |       |
| 8W                                                                                                                                                                                                                                                          | 0.53 | 0.58 | 0.45   | 0.41 | 17.2V  | 125X13.88 mm | 36 Pcs (2X18Pcs) | 1kg           | 31.6V  | 0.41 | 17.2V  | 9W   | SSPXXX-36-5 |       |
| 7W                                                                                                                                                                                                                                                          | 0.47 | 0.52 |        |      |        |              |                  |               |        |      |        |      |             |       |
| Less                                                                                                                                                                                                                                                        |      |      |        |      |        |              |                  |               |        |      |        |      |             |       |
| 5.5W                                                                                                                                                                                                                                                        | 0.32 | 0.7  | 0.26   | 0.24 | 6W     |              |                  |               |        |      |        |      |             |       |
| SSMXX-5W                                                                                                                                                                                                                                                    | 0.29 | 0.64 | 0.2    | 0.18 | 3W     |              |                  |               |        |      |        |      |             |       |
| 4W                                                                                                                                                                                                                                                          | 0.24 | 0.55 | 0.13   | 0.12 | 3W     |              |                  |               |        |      |        |      |             |       |
| 3W                                                                                                                                                                                                                                                          | 0.18 | 0.52 |        |      |        |              |                  |               |        |      |        |      |             |       |
| Less                                                                                                                                                                                                                                                        |      |      |        |      |        |              |                  |               |        |      |        |      |             |       |
| Junction Box : IP 65, TUV Certified                                                                                                                                                                                                                         |      |      |        |      |        |              |                  |               |        |      |        |      |             |       |
| Integrated bypass diodes in the junction box reduce the power loss effect in a string caused by events such as shading.                                                                                                                                     |      |      |        |      |        |              |                  |               |        |      |        |      |             |       |
| Remark: Usability: Power over 80W with 100mm Cables, Power over 50W with Bypass Diodes.                                                                                                                                                                     |      |      |        |      |        |              |                  |               |        |      |        |      |             |       |
| Electrical Characteristics                                                                                                                                                                                                                                  |      |      |        |      |        |              |                  |               |        |      |        |      |             |       |
| Pm Temperature Coefficient: < -0.45%/°C                                                                                                                                                                                                                     |      |      |        |      |        |              |                  |               |        |      |        |      |             |       |
| Voc Temperature Coefficient: < -0.39%/°C                                                                                                                                                                                                                    |      |      |        |      |        |              |                  |               |        |      |        |      |             |       |
| MOCT: 48 V < +1.2 V                                                                                                                                                                                                                                         |      |      |        |      |        |              |                  |               |        |      |        |      |             |       |
| Isc Temperature Coefficient: < 0.06%/°C                                                                                                                                                                                                                     |      |      |        |      |        |              |                  |               |        |      |        |      |             |       |
| Maximum System Voltage: 1000VDC(IEC), 600VDC(UL)                                                                                                                                                                                                            |      |      |        |      |        |              |                  |               |        |      |        |      |             |       |
| Relative humidity: 0 to 100%                                                                                                                                                                                                                                |      |      |        |      |        |              |                  |               |        |      |        |      |             |       |
| Resistance 275g steel ball fall down from 1m height and 60m/s wind                                                                                                                                                                                          |      |      |        |      |        |              |                  |               |        |      |        |      |             |       |
| Quality and Safety: (According to IEC 61215 & IEC 61730)                                                                                                                                                                                                    |      |      |        |      |        |              |                  |               |        |      |        |      |             |       |
| Product warranty: Free from defects in materials and workmanship for 5 years.                                                                                                                                                                               |      |      |        |      |        |              |                  |               |        |      |        |      |             |       |
| Power warranty: Maintain more than 90% of minimum rated power for 10 years.                                                                                                                                                                                 |      |      |        |      |        |              |                  |               |        |      |        |      |             |       |
| Maintain more than 80% of minimum rated power for 25 years.                                                                                                                                                                                                 |      |      |        |      |        |              |                  |               |        |      |        |      |             |       |
|    |      |      |        |      |        |              |                  |               |        |      |        |      |             |       |