

PVsyst V7.4.5

| | i v illoadic | SS8-72HD-580N ———— | |
|---|---|--|-----------------------|
| /lanufacturer | UNIMACTS | Commercial data | |
| /lodel | SS8-72HD-580N | , | Since 2023 |
| | | Data source : | TÜV SÜD |
| nom STC power (manufacturer) | 580 Wp | Technology | Si-mono |
| Nodule size (W x L) | .134 x 2.278 m ² | Rough module area (Amodule) | 2.58 m ² |
| lumber of cells | 2 x 72 | Sensitive area (cells) (Acells) | 2.38 m² |
| specifications for the model (ma | anufacturer or measureme | ent data) | |
| Reference temperature (TRef) | 25 °C | Reference irradiance (GRef) | 1000 W/m ² |
| pen circuit voltage (Voc) | 51.5 V | Short-circuit current (Isc) | 14.36 A |
| lax. power point voltage (Vmpp) | 42.6 V | Max. power point current (Impp) | 13.62 A |
| > maximum power (Pmpp) | 580.1 W | Isc temperature coefficient (mulsc) | 6.5 mA/°C |
| ne-diode model parameters | | | |
| hunt resistance (Rshunt) | 300 Ω | Diode saturation current (loRef) | 0.018 nA |
| Serie resistance (Rserie) | 0.22 Ω | Voc temp. coefficient (MuVoc) | -123 mV/°C |
| specified Pmax temper. coeff. (muPMa | axR) -0.29 %/°C | Diode quality factor (Gamma) | 1.02 |
| | | Diode factor temper. coeff. (muGamma) | 0.000 1/°C |
| Reverse Bias Parameters, for us | e in behaviour of PV array | s under partial shadings or mismatch | |
| Reverse characteristics (dark) (BRev) | 3.20 mA/V ² | (quadratic factor (per cell)) | |
| lumber of by-pass diodes per module | 3 | Direct voltage of by-pass diodes | -0.7 V |
| Andal recults for standard condi | itions (STC: T-25°C C- | -1000 \\//m2 \\ \\/\=1 \(\) | |
| /lodel results for standard condi /lax. power point voltage (Vmpp) | 42.6 V | Max. power point current (Impp) | 13.65 A |
| laximum power (Pmpp) | 580.0 Wp | Power temper. coefficient (muPmpp) | -0.29 %/°C |
| | 300.0 VVD | i ower temper. Coemcient (mai mpp) | -0.23 /0/ C |
| | • | | 0.785 |
| fficiency(/ Module area) (Eff_mod) | 22.5 % | Fill factor (FF) | 0.785 |
| | • | | 0.785 |
| fficiency(/ Module area) (Eff_mod) | 22.5 % 24.3 % | Fill factor (FF) | 0.785 |
| Efficiency(/ Module area) (Eff_mod) Efficiency(/ Cells area) (Eff_cells) | 22.5 % 24.3 % PV module: UNIMA | | 0.785 |
| Efficiency(/ Module area) (Eff_mod) Efficiency(/ Cells area) (Eff_cells) | 22.5 % 24.3 % | Fill factor (FF) ACTS, SS8-72HD-580N | 0.785 |
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| Efficiency(/ Module area) (Eff_mod) Efficiency(/ Cells area) (Eff_cells) 16 Cells temp. = 25 °C | 22.5 % 24.3 % PV module: UNIMA Incident Irrad. = 1000 W/m² | Fill factor (FF) ACTS, SS8-72HD-580N | 0.785 |
| Efficiency(/ Module area) (Eff_mod) Efficiency(/ Cells area) (Eff_cells) 16 Cells temp. = 25 °C 14 12 - | 22.5 % 24.3 % PV module: UNIMA Incident Irrad. = 1000 W/m² | Fill factor (FF) ACTS, SS8-72HD-580N 580.0 W | 0.785 |
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Voltage [V]