

PVsyst V7.4.5

| | – PV module - S | SS8-72HD-590N ———— | |
|--|---|---|-----------------------|
| Nanufacturer Nodel | UNIMACTS SS8-72HD-590N | Commercial data Availability: Prod. S Data source: | Since 2023 TÜV SÜD |
| nom STC power (manufacturer) | 590 Wp | Technology | Si-mono |
| | x 2.278 m ² | Rough module area (Amodule) | 2.58 m ² |
| Number of cells | 2 x 72 | Sensitive area (cells) (Acells) | 2.38 m ² |
| Specifications for the model (manufa | acturer or measureme | nt data) | |
| Reference temperature (TRef) | 25 °C | Reference irradiance (GRef) | 1000 W/m² |
| Open circuit voltage (Voc) | 51.9 V | Short-circuit current (Isc) | 14.48 A |
| Лах. power point voltage (Vmpp) | 42.9 V | Max. power point current (Impp) | 13.75 A |
| > maximum power (Pmpp) | 590.2 W | Isc temperature coefficient (mulsc) | 6.5 mA/°C |
| | | | |
| One-diode model parameters | 250.0 | Diada acturation ourrant (IaDaf) | 0.015 p.4 |
| Shunt resistance (Rshunt) | 350 Ω | Diode saturation current (loRef) | 0.015 nA |
| Serie resistance (Rserie) | 0.22 Ω | Voc temp. coefficient (MuVoc) | -124 mV/°C |
| Specified Pmax temper. coeff. (muPMaxR) | -0.29 %/°C | Diode quality factor (Gamma) | 1.02 0.000 1/°C |
| | | Diode factor temper. coeff. (muGamma) | 0.000 1/°C |
| Reverse Bias Parameters, for use in Reverse characteristics (dark) (BRev) | behaviour of PV arrays 3.20 mA/V ² | s under partial shadings or mismatch (quadratic factor (per cell)) | |
| lumber of by-pass diodes per module | 3 | Direct voltage of by-pass diodes | -0.7 V |
| May nower point voltage (\/mpp) | 42.9 V | Max. power point current (Impp) | 13.79 A |
| Max. power point voltage (Vmpp) Maximum power (Pmpp) Efficiency(/ Module area) (Eff_mod) Efficiency(/ Cells area) (Eff_cells) | 590.1 Wp 22.8 % 24.7 % | Power temper. coefficient (muPmpp) Fill factor (FF) | -0.29 %/°C 0.786 |
| Maximum power (Pmpp) Efficiency(/ Module area) (Eff_mod) | 590.1 Wp 22.8 % 24.7 % | Fill factor (FF) | |
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| Maximum power (Pmpp) Efficiency(/ Module area) (Eff_mod) Efficiency(/ Cells area) (Eff_cells) 16 Cells temp. = 25 °C Incidence | 590.1 Wp 22.8 % 24.7 % PV module: UNIMA dent Irrad. = 1000 W/m² | Fill factor (FF) | |
| Maximum power (Pmpp) Efficiency(/ Module area) (Eff_mod) Efficiency(/ Cells area) (Eff_cells) 16 Cells temp. = 25 °C Incidence | 590.1 Wp 22.8 % 24.7 % PV module: UNIMA dent Irrad. = 1000 W/m² | Fill factor (FF) CTS, SS8-72HD-590N 590.1 W | |
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| Maximum power (Pmpp) Efficiency(/ Module area) (Eff_mod) Efficiency(/ Cells area) (Eff_cells) 16 Cells temp. = 25 °C Incidence 14 10 Incidence Inc | 590.1 Wp 22.8 % 24.7 % PV module: UNIMA dent Irrad. = 1000 W/m² dent Irrad. = 800 W/m² | Fill factor (FF) CTS, SS8-72HD-590N 590.1 W | |
| Maximum power (Pmpp) Efficiency(/ Module area) (Eff_mod) Efficiency(/ Cells area) (Eff_cells) 16 Cells temp. = 25 °C Incidence 14 10 Incidence 10 | 590.1 Wp 22.8 % 24.7 % PV module: UNIMA dent Irrad. = 1000 W/m² dent Irrad. = 800 W/m² | Fill factor (FF) CTS, SS8-72HD-590N 590.1 W | |
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