

PVsyst V7.4.5

	PV module -	SS8-72HD-585N ————	
/lanufacturer	UNIMACTS	Commercial data	
Model	SS8-72HD-585N	Availability: Prod.	Since 2023
		Data source :	TÜV SÜD
Pnom STC power (manufacturer)	585 Wp	Technology	Si-mono
Module size (W x L) 1.134	4 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 (manu	facturer or measureme	ent data)	
Reference temperature (TRef)	25 °C	Reference irradiance (GRef)	1000 W/m ²
Open circuit voltage (Voc)	51.7 V	Short-circuit current (Isc)	14.42 A
Max. power point voltage (Vmpp)	42.8 V	Max. power point current (Impp)	13.68 A
> maximum power (Pmpp)	585.1 W	lsc temperature coefficient (mulsc)	6.5 mA/°C
One-diode model parameters			
Shunt resistance (Rshunt)	300 Ω	Diode saturation current (loRef)	0.019 nA
Serie resistance (Rserie)	0.21 Ω	Voc temp. coefficient (MuVoc)	-124 mV/°C
Specified Pmax temper. coeff. (muPMaxR)	-0.29 %/°C	Diode quality factor (Gamma)	1.02
		Diode factor temper. coeff. (muGamma)	0.000 1/°C
Reverse Bias Parameters. for use in	n behaviour of PV array	s under partial shadings or mismatch	
Reverse characteristics (dark) (BRev)	3.20 mA/V ²	(quadratic factor (per cell))	
Number of by-pass diodes per module	3	Direct voltage of by-pass diodes	-0.7 V
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Model results for standard condition			10 71 A
Max. power point voltage (Vmpp)	42.8 V	Max. power point current (Impp)	13.71 A
A	EOE 4 \M.	D	
	585.1 Wp	Power temper. coefficient (muPmpp)	-0.29 %/°C
Efficiency(/ Module area) (Eff_mod)	22.6 %	Power temper. coefficient (muPmpp) Fill factor (FF)	-0.29 %/°C 0.785
Maximum power (Pmpp) Efficiency(/ Module area) (Eff_mod) Efficiency(/ Cells area) (Eff_cells)	•		
Efficiency(/ Module area) (Eff_mod)	22.6 % 24.5 %	Fill factor (FF)	
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