PV module - DXM6-72H-400

Manufacturer	Generic	**Commercial data**	
Model	DXM6-72H-400	Availability :	Prod. Since 2020
		Data source :	Datasheets 2020
Pnom STC power (manufacturer)	400 Wp	Technology	Si-mono
Module size (W x L)	1.002 x 2.018 m²	Rough module area (Amodule)	2.02 m²
Number of cells	2 x 72	Sensitive area (cells) (Acells)	1.79 m²

Specifications for the model (manufacturer or measurement data)

Reference temperature (TRef)	25 °C	Reference irradiance (GRef)	1000 W/m²
Open circuit voltage (Voc)	49.3 V	Short-circuit current (Isc)	10.30 A
Max. power point voltage (Vmpp)	40.8 V	Max. power point current (Impp)	9.80 A
=> maximum power (Pmpp)	399.8 W	Isc temperature coefficient (muIsc)	5.2 mA/°C

One-diode model parameters

Shunt resistance (Rshunt)	500 Ω	Diode saturation current (IoRef)	0.016 nA
Serie resistance (Rserie)	0.28 Ω	Voc temp. coefficient (MuVoc)	-167 mV/°C
Specified Pmax temper. coeff. (muPMaxR)	-0.40 %/°C	Diode quality factor (Gamma)	0.98
		Diode factor temper. coeff. (muGamma)	-0.001 1/°C

Reverse Bias Parameters, for use in behaviour of PV arrays under partial shadings or mismatch

Reverse characteristics (dark) (BRev)	3.20 mA/V²	(quadratic factor (per cell))	
Number of by-pass diodes per module	3	Direct voltage of by-pass diodes	-0.7 V

Model results for standard conditions (STC: T=25 °C, G=1000 W/m², AM=1.5)

Max. power point voltage (Vmpp)	40.9 V	Max. power point current (Impp)	9.81 A
Maximum power (Pmpp)	399.9 Wp	Power temper. coefficient (muPmpp)	-0.40 %/°C
Efficiency(/ Module area) (Eff_mod)	19.8 %	Fill factor (FF)	0.788
Efficiency(/ Cells area) (Eff_cells)	22.4 %