










Supernova Solar Roof Tile 50W



INMETRO Record N° 012197/2022

-  10 years manufacturing warranty and minimum efficiency of 80% over 25 years;
-  Reduced PID (Potential Induced Degradation);
-  Cell efficiency of 22.7%;
-  Monocrystalline cells with 9 BusBar technology;
-  Excellent performance in low light conditions;
-  IP 67 connection box;
-  Worldwide standard MC4 connectors;

Inverters (single, three-phase or hybrid string) and approved Micro Inverters

-  Deye
-  Intelbras, Weg, Growatt, Fronius, Sungrow, Huawei, Solis e Sofar

Electrical Data/*STC

Specifications	Data
Maximum power at STC (Pmax)	50 W
Opt. operating voltage (Vmp)	12.00 V
Opt. operating current (Imp)	4.17 A
Open circuit voltage (Voc)	14.4 V
Short-circuit current (Isc)	4.50 A
Maximum system voltage	500 V
Operating temperature	-40°C ~+85°C
* Exposure efficiency	9.91%
Module efficiency	8.9%
Cell efficiency	22.7%
Average energy production (kWh/month)	6.25kWh/mês

Data

Specifications	Data
Cell type	Monocrystalline
Number of cells	24 Cells
Dimensions	715 x 806 mm
Display dimensions	690 x 740 mm
Weight	5.65 kg
Connection box	IP 67, MC-4, 1 Diodo
Cable	4mm ² , 500mm
Connector	MC4

All data under standard test conditions.

Irradiance 1000w/m², Operating temperature 25°C, AM spectrum 1.5

* Exposure efficiency is the ratio between the yield of the area that is exposed to the irradiance.



Temperature Characteristics

Specifications	Data
Temperature coefficient (Pmax)	-0,39 %/°C
Temperature coefficient (Isc)	0,03 %/°C
Temperature coefficient (Voc)	-0,25 %/°C
Nominal operating temperature cell	45 ± 2°C