



Project: Design on grid solar system of SSVIT bareilly

Variant: Roof top system

PVsyst V7.2.5

VC1, Simulation date:
21/09/21 20:06
with v7.2.5

Project summary

Geographical Site

SSVIT bareilly
India

Situation

Latitude 28.45 °N
Longitude 79.44 °E
Altitude 268 m
Time zone UTC+5.5

Project settings

Albedo 0.20

Meteo data

SSVIT bareilly
Meteonorm 8.0 (1981-2010), Sat=100% - Synthetic

System summary

Grid-Connected System

3D scene defined, shadings defined

PV Field Orientation

Fixed plane
Tilt/Azimuth 29 / -1 °

Near Shadings

No Shadings

User's needs

Unlimited load (grid)

System information

PV Array

Nb. of modules 450 units
Pnom total 180 kWp

Inverters

Nb. of units 1 Unit
Pnom total 150 kWac
Pnom ratio 1.200

Results summary

Produced Energy	263962 kWh/year	Specific production	1466 kWh/kWp/year	Perf. Ratio PR	80.86 %
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Roof top system

Balances and main results

	GlobHor	DiffHor	T_Amb	GlobInc	GlobEff	EArray	E_Grid	PR
	kWh/m ²	kWh/m ²	°C	kWh/m ²	kWh/m ²	kWh	kWh	ratio
January	93.6	44.5	13.51	125.9	123.4	20281	19484	0.860
February	114.5	54.7	17.62	142.5	139.6	22354	21491	0.838
March	170.3	68.1	23.81	195.3	190.9	29376	28255	0.804
April	179.1	85.1	29.53	182.4	177.7	26756	25729	0.784
May	193.2	97.5	33.36	181.6	176.3	26235	25220	0.772
June	169.6	101.0	32.89	154.6	149.8	22674	21774	0.782
July	140.2	92.4	31.31	129.7	125.6	19328	18532	0.794
August	131.5	93.0	30.38	126.4	122.2	19021	18257	0.802
September	140.8	73.7	28.97	149.3	145.1	22212	21346	0.794
October	133.1	69.7	26.55	157.3	154.1	23717	22793	0.805
November	107.5	56.3	20.25	141.5	138.5	22234	21407	0.840
December	92.2	48.8	15.00	127.0	124.3	20453	19674	0.861
Year	1665.7	884.9	25.30	1813.6	1767.5	274640	263962	0.809