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E. Final Module Testing Result Panel Wise

The testing is performed at Standard Test Condition as per recommendation of MNRE and CREDA.

Table no. 5 30 Panel STANDARD TEST CONDITION Testing Results

SOLAR PANEL ID	INTENSITY VOLTAGE	LOAD VOLTAGE	I_{rr}	TESTING TEMP.	CORRECTED TEMP.	V_{oc}	I_{sc}	R_s	R_{sh}	P_{max} (Watt)	V_{pm}	$I_{pm}(A)$	FILL FACTOR	Efficiency, mentioned	Efficiency, Calculated
1	5.261 Volts	6.7 Volts	100mV/sq.cm	24.1-C	25-C	44.341V	8.249A	0.607Ω	143.386Ω	271.7	35.03V	7.76	0.743	14.07%	15.77%
2	5.261 Volts	6.5 Volts	100mV/sq.cm	24.6-C	25-C	44.269V	8.263A	0.646Ω	99.353Ω	273.29	35.07V	7.79	0.747	14.15%	15.86%
3	5.261 Volts	6.5 Volts	100mV/sq.cm	24.5-C	25-C	44.116V	8.200A	0.632Ω	106.268Ω	273.96	35.13V	7.8	0.757	14.18%	15.90%
4	5.261 Volts	6.5 Volts	100mV/sq.cm	24.8-C	25-C	44.185V	8.155A	0.606Ω	115.392Ω	272.22	35.39V	7.78	0.764	14.25%	15.98%
5	5.261 Volts	6.5 Volts	100mV/sq.cm	24.6-C	25-C	44.184V	8.181A	0.654Ω	87.226Ω	264.37	35.68V	7.41	0.731	13.67%	15.35%
6	5.261 Volts	6.5 Volts	100mV/sq.cm	24.6-C	25-C	44.144V	8.174A	0.679Ω	110.726Ω	271.08	34.76V	7.8	0.751	14.03%	15.74%
7	5.261 Volts	5.3 Volts	100mV/sq.cm	26.6-C	25-C	43.453V	7.987A	0.568Ω	376.012Ω	263.05	34.858V	7.55	0.758	13.62%	15.27%
8	5.261 Volts	6.7 Volts	100mV/sq.cm	23.8-C	25-C	44.278V	8.283A	0.618Ω	91.634Ω	265.84	36.027V	7.37	0.724	13.75%	15.42%
9	5.261 Volts	6.7 Volts	100mV/sq.cm	25.4-C	25-C	44.200V	8.213A	0.622Ω	72.371Ω	275.24	35.205V	7.82	0.758	14.25%	15.98%
10	5.261 Volts	5.3 Volts	100mV/sq.cm	25.3-C	25-C	44.307V	8.207A	0.639Ω	127.744Ω	275.97	35.363V	7.81	0.759	14.27%	16.02%
11	5.261 Volts	6.7 Volts	100mV/sq.cm	25.1-C	25-C	44.162V	8.817A	0.670Ω	118.983Ω	272.44	35.004V	7.78	0.753	14.11%	15.82%
12	5.261 Volts	5.3 Volts	100mV/sq.cm	25.7-C	25-C	44.483V	8.220A	0.667Ω	104.781Ω	276.14	35.193V	7.85	0.755	14.30%	16.03%
13	5.261 Volts	6.7 Volts	100mV/sq.cm	25.2-C	25-C	44.266V	8.222A	0.647Ω	71.943Ω	273.85	35.23V	7.77	0.752	14.18%	15.90%
14	5.261 Volts	6.7 Volts	100mV/sq.cm	24.9-C	25-C	44.159V	8.221A	0.662Ω	75.854Ω	271.11	35.05V	7.73	0.747	14.04%	15.74%
15	5.261 Volts	6.7 Volts	100mV/sq.cm	24.4-C	25-C	44.481V	8.243A	0.641Ω	88.898Ω	279.31	35.58V	7.64	0.762	14.45%	16.21%
16	5.261 Volts	6.7 Volts	100mV/sq.cm	25.2-C	25-C	44.257V	8.212A	0.631Ω	150.519Ω	276.51	35.33V	7.83	0.761	14.32%	16.05%
17	5.261 Volts	6.7 Volts	100mV/sq.cm	25.3-C	25-C	44.405V	8.225A	0.626Ω	97.575Ω	276.5	44.41V	8.22	0.757	14.31%	16.06%
18	5.261 Volts	6.7 Volts	100mV/sq.cm	25.2-C	25-C	44.270V	8.238A	0.675Ω	63.350Ω	272.57	35.12V	7.76	0.747	14.11%	15.82%
19	5.261 Volts	6.7 Volts	100mV/sq.cm	25.2-C	25-C	44.515V	8.230A	0.682Ω	96.645Ω	276.08	35.31V	7.82	0.754	14.30%	16.03%
20	5.261 Volts	6.7 Volts	100mV/sq.cm	24.3-C	25-C	44.327V	8.218A	0.655Ω	76.71Ω	276.38	35.24V	7.84	0.759	14.31%	16.05%
21	5.261 Volts	6.7 Volts	100mV/sq.cm	24.3-C	25-C	44.368V	8.258A	0.649Ω	85.47Ω	275.4	35.12V	7.85	0.752	14.26%	15.98%
22	5.261 Volts	6.7 Volts	100mV/sq.cm	24.2-C	25-C	44.491V	8.262A	0.664Ω	154.674Ω	273.23	35.13V	7.79	0.743	14.15%	15.86%
23	5.261 Volts	6.7 Volts	100mV/sq.cm	24.0-C	25-C	44.329V	8.259A	0.684Ω	106.989Ω	275.49	35.07V	7.85	0.752	14.26%	15.93%
24	5.261 Volts	6.7 Volts	100mV/sq.cm	24.1-C	25-C	44.382V	8.232A	0.666Ω	134.173Ω	277.57	35.30V	7.86	0.76	14.37%	16.11%
25	5.261 Volts	5.9 Volts	100mV/sq.cm	26.8-C	25-C	44.264V	8.193A	0.562Ω	290.08Ω	267.75	36.35V	7.37	0.74	13.86%	15.54%
26	5.261 Volts	6.7 Volts	100mV/sq.cm	25.2-C	25-C	44.270V	8.238A	0.675Ω	63.350Ω	272.57	35.12V	7.76	0.747	14.11%	15.85%
27	5.261 Volts	6.7 Volts	100mV/sq.cm	25.2-C	25-C	44.515V	8.230A	0.682Ω	96.645Ω	276.08	35.31V	7.82	0.754	14.30%	16.05%
28	5.261 Volts	6.7 Volts	100mV/sq.cm	24.3-C	25-C	44.327V	8.218A	0.655Ω	76.71Ω	276.38	35.24V	7.84	0.759	14.31%	16.04%
29	5.261 Volts	6.7 Volts	100mV/sq.cm	24.3-C	25-C	44.368V	8.258A	0.649Ω	85.47Ω	275.4	35.12V	7.85	0.752	14.26%	15.97%
30	5.261 Volts	6.7 Volts	100mV/sq.cm	24.1-C	25-C	44.382V	8.232A	0.666Ω	134.173Ω	277.57	35.30V	7.86	0.76	14.38%	16.14%

SOURCE:-CREDA

VII. CONCLUSION

In this way designing aspects of solar photo voltaic system is studied with the help of all important parameters. Solar PV system promotes power system security and hence, outage can be avoided. Although, solar system are costly, but no extra cost is required after installation and one can get complete amount back within 5 years. As conservation of fossil fuels are required. So, solar power generation is the best choice. If the concept of wireless power transfer comes in practical usage. Then, we can get energy 24 hour by installing solar panels in space.

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