

# TESTING AND OBSERVATION

Peak Power Output ( $P_{\max}$ ) (watt)	Nominal Voltage (v)	Open Circuit Voltage ( $V_{oc}$ )	Short circuit Current ( $I_{sc}$ ) (amp)	Maximum Voltage ( $V_{\max}$ ) At $P_{\max}$ (v)	Maximum Current ( $I_{\max}$ ) at $P_{\max}$ (amp)
4	6	>11.5	>0.63	8.5	0.47
4	12	>21	>0.3	16.7	0.23
8	12	>21	>0.56	16.7	0.47
10	12	>21	>0.70	16.7	0.59
12	12	>21	>0.84	16.7	0.71
18	12	>21	>1.26	16.7	1.07
35	12	>21	>2.4	16.7	2.09
40	12	>21	>2.7	16.7	2.39
50	12	>21	>3.3	16.7	2.99
65	12	>21	>4.0	16.7	3.89
70	12	>21	>4.5	16.7	4.09
75	12	>21	>5.0	16.7	4.49
90	12	>21	>6.0	16.7	5.38

The values in the above table are at standard testing conditions such as 25degree cell temperature and 100- Mw/Sq.cm solar radiation. The output will be reduced as temperature rises and intensity of sunlight reduces. Although accurate power is measured with the help of module Tester at supplier's end, however to check working of module  $V_{oc}$  and  $I_{sc}$  can be measured at site by simple multi-meter in two different modes i.e., Current mode and Voltage mode when modules is placed in Sunlight. The solar panel is kept in such position that it receives maximum sunlight.