

Table S1: An example of the input data values

Duration time [hh:mm]	T_{env} [°C]	I_{cond} [A]	H [W/m ²]	v_{wind} [m/s]	T_{cond} [°C]
07:48	10.70	332.12	27.09	0.25	10.58
07:49	10.70	509.56	28.00	0.61	11.43
07:50	10.70	632.00	28.40	0.34	13.03
07:51	10.70	739.19	29.36	0.43	15.49
07:52	10.70	829.73	29.80	0.37	18.56
07:53	10.70	885.91	29.20	0.67	22.32
07:54	10.70	917.15	28.18	0.46	26.29
07:55	10.70	967.53	26.70	0.26	30.30
07:56	10.70	1015.53	26.09	0.29	34.50
07:57	10.70	1060.35	25.50	0.49	39.16
07:58	10.70	1044.29	24.60	0.35	43.92
07:59	10.70	1026.97	25.00	0.45	48.35
08:00	10.70	956.86	24.50	0.47	51.87
08:01	10.70	907.43	24.45	0.35	54.49
08:02	10.70	884.15	24.60	0.44	56.52
08:03	10.70	855.45	25.80	0.66	58.26
08:04	10.70	844.38	26.91	0.59	59.72
08:05	10.70	820.53	27.70	0.61	60.84
08:06	10.70	799.58	27.70	0.61	61.54
08:07	10.70	781.91	26.73	0.70	61.81
08:08	10.70	776.18	25.80	0.45	61.87
08:09	10.70	737.36	26.91	0.36	61.76
08:10	10.70	773.63	28.80	0.47	61.44
08:11	10.70	776.94	32.10	0.54	61.36
08:12	10.70	747.50	34.64	0.80	61.15
08:13	10.70	762.32	36.00	0.38	60.62
08:14	10.67	775.70	36.10	0.66	60.14
08:15	10.61	776.66	35.82	0.62	60.01
08:16	10.60	778.35	35.00	0.57	59.97
08:17	10.60	783.26	35.30	0.69	59.96
08:18	10.60	784.07	35.91	0.58	60.06
08:19	10.60	778.26	37.70	0.54	60.06
08:20	10.60	792.32	39.91	0.53	59.98
08:21	10.60	802.75	42.50	0.79	59.94
08:22	10.60	810.29	45.40	0.61	59.89
08:23	10.60	826.80	47.27	0.54	59.79
08:24	10.60	836.20	46.00	0.82	59.74
08:25	10.55	847.71	41.00	0.60	59.62

08:26	10.51	866.32	36.30	0.47	59.51
08:27	10.50	871.00	33.00	0.85	59.49
08:28	10.50	882.31	30.45	0.65	59.43
08:29	10.50	898.42	29.60	0.56	59.40
08:30	10.50	896.57	29.18	0.81	59.46
08:31	10.50	898.16	29.18	0.83	59.48
08:32	10.50	904.88	31.00	0.65	59.53
08:33	10.41	879.01	32.45	0.75	59.77
08:34	10.40	875.49	33.20	0.61	59.91
08:35	10.42	866.42	32.60	0.71	60.05
08:36	10.43	842.73	30.27	0.80	60.31
08:37	10.40	831.36	28.50	0.34	60.44
08:38	10.49	802.03	27.50	0.20	60.55
08:39	10.50	790.95	26.55	0.62	60.63
08:40	10.50	770.64	24.50	0.82	60.72
08:41	10.50	759.26	22.45	0.79	60.72
08:42	10.50	754.90	20.80	0.57	60.60
08:43	10.50	769.72	19.50	0.57	60.44
08:44	10.50	764.93	18.36	0.64	60.33
08:45	10.50	771.33	16.30	0.57	60.24
08:46	10.50	769.56	14.73	0.29	60.18
08:47	10.46	762.04	12.90	0.50	60.21
08:48	10.40	767.27	13.70	0.29	60.23
08:49	10.40	760.63	14.45	0.20	60.24
08:50	10.40	763.94	15.30	0.41	60.23
08:51	10.40	750.92	16.70	0.31	60.36
08:52	10.40	725.71	17.27	0.73	60.52
08:53	10.40	714.26	18.00	0.74	60.54
08:54	10.40	713.22	18.60	0.20	60.45
08:55	10.40	709.93	19.45	0.30	60.37
08:56	10.40	711.67	19.70	0.30	60.33
08:57	10.40	712.51	20.00	0.39	60.29
08:58	10.40	706.23	21.36	0.69	60.23