



Solar LED Street Light Model **18 Watts** **Full Power** **9 Watts** **Dim Power**
Solar Module **100 Watts**

- Notes**
- * Set up the controller for Full Power Hours and Dim Hours according to Location
 - * We recommend using 105Ah 12V Tubular Gell Battery in all instances
 - * In Southern Locations Tilt Solar Panel to tilt angle facing north
 - * In Northern Locations Tilt Solar Panel to tilt angle facing south

Country	Location	Latitude	Longitude	Elevation (meters)	Radiation (max)	Radiation (min)	Radiation Selected	Tilt Angle	Batt Size 12V (ah)	Full Power Hours	Dim Hours	Max Bat Re
Angola	Huambo	-13	16	1700	5.17	4.64	4.70	15	101	13	1	28
Angola	Lobito	-12	14	3	5.38	3.22	3.89	30	82	8	6	25
Angola	Luanda	-9	13	70	5.86	4.07	4.55	20	98	12	2	27
Angola	Luau	-11	22	1100	6.23	4.83	5.13	15	105	14	0	19
Angola	Luena	-12	20	1357	5.36	4.68	4.68	15	101	13	1	29
Angola	Malanje	-10	16	1142	5.10	4.40	4.52	15	98	12	2	28
Angola	Mocamedes	-15	12	45	5.80	3.89	4.77	25	101	13	1	25
Angola	Ngila	-17	16	1109	6.11	4.60	5.46	15	105	14	0	13
Botswana	Gaborone	-25	26	980	6.70	3.81	5.63	35	105	14	0	11
Botswana	Ghanzi	-22	22	1131	6.73	4.36	5.76	25	105	14	0	10
Botswana	Mahalapye	-23	29	1006	6.24	3.68	5.00	25	105	14	0	23
Botswana	Maun	-20	23	945	6.41	4.17	5.48	25	105	14	0	13
Botswana	Shakawe	-18	22	1008	6.24	4.45	5.33	20	105	14	0	15
Botswana	Tsabong	-26	22	962	7.24	3.86	5.93	40	105	14	0	9
D.R.C.	Butembo	0	29	1841	4.89	4.19	4.22	15	90	10	4	26
D.R.C.	Case Barriere	-4	15	347	5.15	4.34	4.34	15	94	11	3	29
D.R.C.	Col Bamba	-4	12	423	5.11	4.08	4.10	15	86	9	5	23
D.R.C.	Kamina-Basoko	-9	25	1106	5.68	4.57	4.57	15	98	12	2	26
D.R.C.	Kinshasa	-4	15	310	5.05	3.94	4.15	15	90	10	4	30
D.R.C.	Kisangani	1	25	396	5.32	4.16	4.28	15	90	10	4	23
D.R.C.	Lumbumbashi	-12	27	1298	6.32	4.74	4.74	15	101	13	1	26
D.R.C.	Mengo	-4	12	178	5.01	4.03	4.05	15	86	9	5	25
D.R.C.	Missafou	-4	14	450	5.20	4.38	4.38	15	94	11	3	27
D.R.C.	Mont Belo	-4	13	338	5.11	4.08	4.10	15	86	9	5	23
D.R.C.	PK 26	-4	12	220	5.11	4.08	4.10	15	86	9	5	23

Street Light Power 18W Solar Panel 90W



Country	Location	Latitude	Longitude	Elevation (meters)	Radiation (max)	Radiation (min)	Radiation Selected	Tilt Angle	Batt Size 12V (ah)	Full Power Hours	Dim Hours	Max Bat Re
D.R.C.	Yamba	-4	14	309	5.21	4.13	4.15	15	90	10	4	30
Gambia	Banjul	14	-17	15	6.27	4.29	4.29	15	90	10	4	22
Kenya	Garissa	0	40	147	5.81	4.81	5.08	15	105	14	0	20
Kenya	Kapenguiria	1	35	2134	6.21	4.29	4.51	15	98	12	2	29
Kenya	Kiamba	-1	37	1731	6.69	4.13	4.43	15	94	11	3	24
Kenya	Kisumu	0	35	1146	6.97	5.15	5.31	15	105	14	0	15
Kenya	Kitui	-1	38	1090	7.11	4.35	4.72	20	101	13	1	27
Kenya	Lamu	-2	41	30	6.44	5.12	5.47	15	105	14	0	13
Kenya	Lodwar	3	36	515	6.82	5.91	5.91	15	105	14	0	9
Kenya	Makindu	-2	38	1000	5.97	4.81	4.90	15	105	14	0	27
Kenya	Malindi	-3	40	20	6.57	5.03	5.46	15	105	14	0	13
Kenya	Mandera	4	42	331	6.55	5.47	5.47	15	105	14	0	13
Kenya	Marsabit	2	38	1345	5.82	4.71	4.71	15	101	13	1	28
Kenya	Mombasa	-4	40	55	6.66	4.61	5.04	20	105	14	0	21
Kenya	Nairobi	-1	37	1624	6.72	4.13	4.48	20	94	11	3	22
Kenya	Naivasha	-1	36	1901	5.71	4.08	4.20	15	90	10	4	27
Kenya	Subukia	0	36	2101	6.04	4.74	4.88	15	105	14	0	28
Kenya	Thika	-1	37	1463	6.69	4.14	4.44	15	94	11	3	24
Kenya	Voi	-3	39	579	6.11	4.07	4.45	20	94	11	3	23
Kenya	Wajir	2	14	244	6.23	4.98	4.98	15	105	14	0	23
Lesotho	Butha Buthe	-29	28	1680	6.72	3.49	5.17	30	105	14	0	18
Lesotho	Maseru	-29	27	1510	7.13	3.57	5.75	40	105	14	0	10
Lesotho	Quithing	-30	28	1650	6.95	3.02	5.16	50	105	14	0	18
Madagascar	Antananarivo	-19	48	1910	6.71	3.86	5.02	25	105	14	0	22
Madagascar	Fascene	-13	48	10	6.73	4.59	5.28	15	105	14	0	16
Madagascar	Fianarantsoa	-21	47	1109	6.00	3.29	4.60	35	98	12	2	24
Madagascar	Fort Dauphin	-25	47	9	6.00	3.27	4.77	40	101	13	1	25
Madagascar	Lac Alaotra	-18	49	770	5.95	3.36	4.33	25	94	11	3	30
Madagascar	Maintirano	-18	44	23	7.09	4.62	5.88	25	105	14	0	10
Malawi	Chitipa	-10	33	1278	6.10	4.31	4.31	15	90	10	4	22
Malawi	Lilongwe	-14	34	1136	6.64	4.35	4.87	15	105	14	0	29
Malawi	Mlekano	-15	36	728	5.62	3.85	3.95	15	82	8	6	22
Malawi	Mulanje	-16	36	628	6.36	3.47	4.46	30	94	11	3	23

Street Light Power 18W Solar Panel 90W



Country	Location	Latitude	Longitude	Elevation (meters)	Radiation (max)	Radiation (min)	Radiation Selected	Tilt Angle	Batt Size 12V (ah)	Full Power Hours	Dim Hours	Max Battery
Malawi	Mzimba	-12	34	1350	6.72	4.72	4.72	15	101	13	1	27
Mauritius	Agalea	-10	57	1	7.17	4.99	5.70	15	105	14	0	11
Mozambique	Alto Molocue	-16	38	563	6.27	3.66	4.58	25	98	12	2	25
Mozambique	Beira Observ	-20	35	7	6.37	3.81	5.15	30	105	14	0	18
Mozambique	Bela Vista	-26	33	15	5.96	3.50	5.12	30	105	14	0	19
Mozambique	Chibuto	-25	34	90	6.67	2.97	3.86	40	82	8	6	26
Mozambique	Chiou Cheml	-17	35	100	4.74	3.88	4.14	15	86	9	5	21
Mozambique	Chobue	-12	35	502	7.00	4.67	5.11	15	105	14	0	19
Mozambique	Fingoe	-15	32	857	6.40	4.16	4.99	20	105	14	0	23
Mozambique	Inhambane	-24	35	14	6.07	3.39	4.95	35	105	14	0	25
Mozambique	Lichunga	-13	35	1364	6.23	4.15	4.59	15	98	12	2	25
Mozambique	Mapi	-23	32	254	6.21	3.71	5.21	30	105	14	0	17
Mozambique	Maputo Observ	-26	33	60	6.12	3.58	5.23	30	105	14	0	17
Mozambique	Marrupa	-13	38	838	6.24	4.36	4.82	15	101	13	1	23
Mozambique	Muede	-12	40	847	5.96	4.33	4.57	15	98	12	2	26
Mozambique	Panda	-24	35	150	5.89	3.30	4.82	35	101	13	1	23
Mozambique	Pemba	-13	41	50	6.61	4.17	4.84	15	101	13	1	22
Mozambique	Quelimane	-18	37	16	6.34	3.67	4.84	30	101	13	1	22
Mozambique	Tete	-16	34	149	6.45	3.87	4.89	25	105	14	0	28
Mozambique	Vilanculos	-22	35	20	6.84	3.83	5.43	35	105	14	0	14
Namibia	Gobabis	-22	19	1445	7.06	4.19	5.81	30	105	14	0	10
Namibia	Keetmansho	-27	18	1067	8.61	4.28	6.73	45	105	14	0	6
Namibia	Swakpmund	-23	15	12	5.91	3.58	4.96	30	105	14	0	24
Namibia	Tsumeb	-19	18	1311	6.65	4.58	5.69	20	105	14	0	11
Namibia	Windhoek	-23	17	1728	7.77	4.76	6.47	25	105	14	0	7
Nigeria	Kaduna	11	7	623	6.83	5.62	5.62	15	105	14	0	12
Nigeria	Lagos	6	3	30	6.35	4.33	4.40	15	94	11	3	26
Nigeria	Maiduguri	12	13		7.07	5.69	5.69	15	105	14	0	11
Sierra Leone	Binkolo	9	-12	410	5.82	3.93	3.98	15	86	9	5	30
Sierra Leone	Freetown	8	-13	20	5.70	2.44	2.51	15	52	0	14	22
South Africa	Alexander Ba	-29	17	21	7.13	3.33	5.32	50	105	14	0	15
South Africa	Calvinia	-31	20	981	7.86	3.02	5.25	55	105	14	0	16
South Africa	Cape St Luci	-29	32	11	5.97	3.06	4.89	40	105	14	0	27

Street Light Power 18W Solar Panel 90W



Country	Location	Latitude	Longitude	Elevation (meters)	Radiation (max)	Radiation (min)	Radiation Selected	Tilt Angle	Batt Size 12V (ah)	Full Power Hours	Dim Hours	Max Battery
South Africa	Cape Town	-34	19	17	7.43	2.34	4.35	60	94	11	3	28
South Africa	De Aar	-31	24	1243	7.56	3.13	5.47	50	105	14	0	13
South Africa	Durban	-30	31	8	5.86	2.97	4.84	40	101	13	1	22
South Africa	Edzinkulu	-29	29	1886	5.32	3.13	4.16	35	90	10	4	29
South Africa	Kuruman	-27	23	1300	7.48	3.68	5.84	45	105	14	0	10
South Africa	Messina	-22	30	549	6.38	3.93	5.38	30	105	14	0	14
South Africa	Newcastle	-28	30	1199	6.51	3.57	5.55	35	105	14	0	12
South Africa	Oudtshoorn	-34	22	335	7.48	2.79	5.12	60	105	14	0	19
South Africa	Polokwane	-24	29	1230	6.47	3.90	5.53	30	105	14	0	12
South Africa	Poffader	-29	19	994	7.80	3.42	5.72	50	105	14	0	11
South Africa	Port Elizabet	-34	26	58	7.37	2.75	5.21	55	105	14	0	17
South Africa	Pretoria	-26	28	1326	6.47	3.73	5.59	35	105	14	0	12
South Africa	Thabazimbi	-25	27	1028	7.03	3.87	5.74	35	105	14	0	10
South Africa	Umtata	-32	29	696	5.09	2.60	4.34	35	94	11	3	29
South Africa	Upington	-28	21	809	7.68	3.49	5.69	50	105	14	0	11
Swaziland	Mbabane	-26	32	1163	6.48	3.68	5.54	35	105	14	0	12
Tanzania	Biharamulo	-3	31	1480	5.96	5.43	5.43	15	105	14	0	14
Tanzania	Bukoba	-1	32	1137	5.28	4.30	4.45	15	94	11	3	23
Tanzania	Dar Es Salaam	-7	39	14	6.32	4.61	4.85	20	105	14	0	30
Tanzania	Dodoma	-6	36	1120	6.46	4.95	5.14	15	105	14	0	19
Tanzania	Igeria	-10	35	2251	5.60	4.18	4.33	15	94	11	3	30
Tanzania	Iringa	-8	36	1428	6.48	4.88	5.10	15	105	14	0	20
Tanzania	Kigoma	-5	30	885	5.93	4.90	4.90	15	105	14	0	27
Tanzania	Kongwa	-6	36	1021	6.46	4.95	5.14	15	105	14	0	19
Tanzania	Lyamungo	-9	37	1250	6.33	2.77	3.18	30	68	4	10	25
Tanzania	Mbeya Airfield	-9	33	1707	6.22	4.42	4.42	15	94	11	3	24
Tanzania	Mombo	-5	38	1070	5.31	3.82	4.26	20	90	10	4	24
Tanzania	Mwanza Airfi	-2	33	1140	5.96	5.44	5.44	15	105	14	0	13
Tanzania	Nachingwea	-10	39	465	6.68	4.62	4.85	15	105	14	0	30
Tanzania	Sao Hill	-8	35	1981	6.66	5.01	5.38	15	105	14	0	14
Tanzania	Songea Town	-11	36	1153	6.23	4.44	4.87	15	105	14	0	29
Tanzania	Sumbawang	-8	32	1710	6.21	4.50	4.50	15	98	12	2	30
Tanzania	Tabora	-5	33	1265	6.44	5.50	5.50	15	105	14	0	13

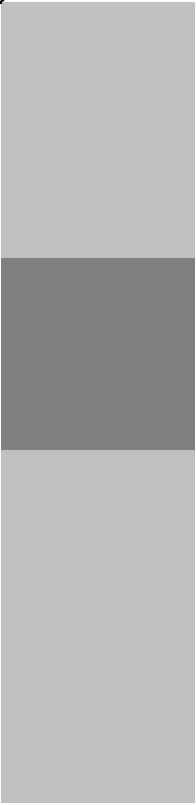
Street Light Power 18W Solar Panel 90W



Country	Location	Latitude	Longitude	Elevation (meters)	Radiation (max)	Radiation (min)	Radiation Selected	Tilt Angle	Batt Size 12V (ah)	Full Power Hours	Dim Hours	Max Bat Re
Tanzania	Zanzibar	-6	39	15	6.05	4.75	5.06	15	105	14	0	21
Uganda	Arua	3	31	1211	5.80	4.97	5.10	15	105	14	0	20
Uganda	Entebbe	0	32	1155	5.36	4.45	4.45	15	94	11	3	23
Uganda	Fort Portal	1	30	1539	5.58	4.66	4.77	15	101	13	1	25
Uganda	Kabale	-1	30	1870	5.08	4.01	4.12	15	86	9	5	22
Uganda	Kampala-Kol	0	33	1140	5.86	4.57	4.76	15	101	13	1	25
Uganda	Lira	2	33	1085	6.12	4.94	5.17	15	105	14	0	18
Uganda	Mbale	1	34	3412	5.82	4.59	4.72	15	101	13	1	27
Uganda	Moroto	3	35	1347	6.29	4.95	5.17	15	105	14	0	18
Zambia	Chipata	-14	33	1234	6.41	4.57	4.86	15	105	14	0	29
Zambia	Choma	-17	27	1447	6.73	3.36	4.49	40	94	11	3	22
Zambia	Kabompo	-14	24	1286	6.73	4.86	5.12	15	105	14	0	19
Zambia	Kasama	-10	31	1655	6.22	4.73	4.73	15	101	13	1	27
Zambia	Kawambwa	-10	29	1584	5.83	4.71	4.71	15	101	13	1	28
Zambia	Livingstone	-18	26	1179	6.05	4.50	5.13	15	105	14	0	19
Zambia	Lundazi	-12	33	167	6.64	4.69	4.78	15	101	13	1	24
Zambia	Lusaka	-15	28	1531	6.22	4.38	4.78	15	101	13	1	24
Zambia	Mongu	-15	23	1259	6.04	4.83	5.15	15	105	14	0	18
Zambia	Mpika	-12	32	1677	6.59	4.68	4.68	15	101	13	1	29
Zambia	Ndola	-13	29	1519	6.32	4.68	4.80	15	101	13	1	24
Zambia	Petauke	-14	31	1239	6.41	4.49	5.01	15	105	14	0	22
Zambia	Samfya	-11	30	142	6.36	5.12	5.12	15	105	14	0	19
Zimbabwe	Bulawayo	-20	29	1344	6.15	4.25	5.39	20	105	14	0	14
Zimbabwe	Chipinge	-20	33	1132	6.05	3.92	5.15	25	105	14	0	18
Zimbabwe	Gwaai	-19	28	999	6.15	4.37	5.36	20	105	14	0	14
Zimbabwe	Harare	-18	31	1472	6.34	4.26	5.11	20	105	14	0	19
Zimbabwe	Karoi	-17	30	1344	6.32	4.24	4.75	20	101	13	1	26
Zimbabwe	Triangle Hill	-21	31	421	6.32	3.73	4.97	30	105	14	0	24



att
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Days



Street Light Power 18W Solar Panel 90W



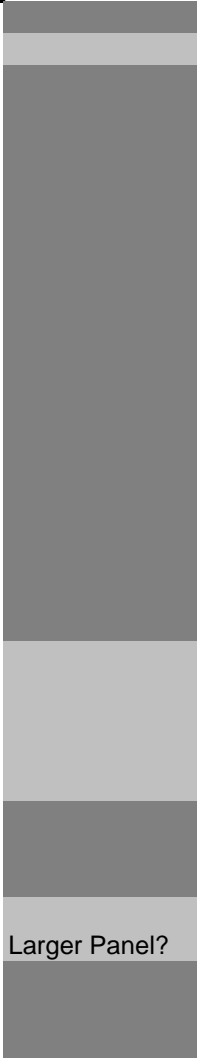
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Street Light Power 18W Solar Panel 90W



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Larger Panel?

Street Light Power 18W Solar Panel 90W



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