Manufacturer: Beacon Technologies

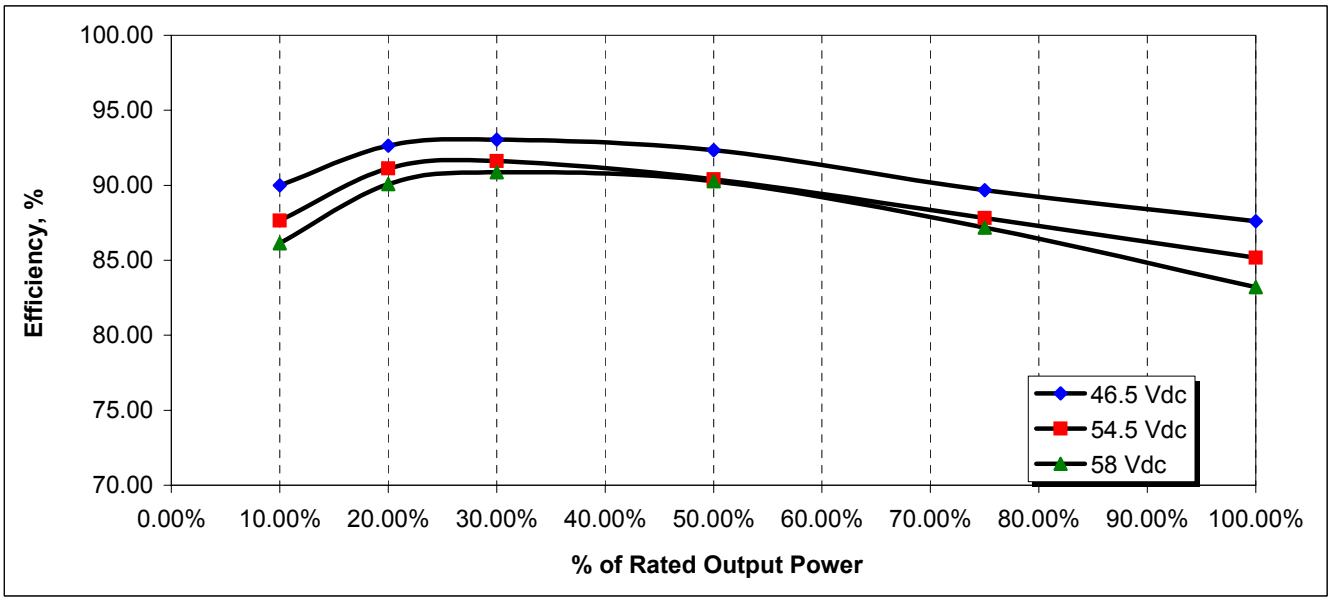
Model #: M5

Rated Maximum Continuous Output Power: 5 kW Night Tare Loss: 14 W

Vmin: 46.5 Vdc Vnom: 54.5 Vdc Vmax: 58 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.50	1.00	1.50	2.50	3.75	5.00	Wtd
Vmin	46.5	89.99	92.65	93.04	92.33	89.68	87.60	90.70
Vnom	54.5	87.66	91.12	91.61	90.41	87.83	85.17	88.85
Vmax	58	86.14	90.07	90.87	90.27	87.18	83.21	88.18

CEC Efficiency = 89.0%



Specified				10%				20%				30%			
Output Power	Input Voltage	Output Power	Input Power	Input Voltage	Efficiency	Output Power	Input Power	Input Voltage	Efficiency	Output Power	Input Power	Input Voltage	Efficiency	Output Power	Input Power
% of rate	(Vdc)	W	W	(Vdc)	(%)	W	W	(Vdc)	(%)	W	W	(Vdc)	(%)	W	W
Sample #	Vmin	503	559	45.77	89.982	1016	1096	45.96	92.701	1506	1618	45.79	93.078	2497	2704
Sample #	Vmin	503	559	45.77	89.982	1016	1096	45.96	92.701	1506	1619	45.74	93.020	2497	2705
Sample #	Vmin	504	560	45.77	90.000	1015	1096	45.96	92.609	1507	1619	45.79	93.082	2497	2705
Sample #	Vmin	504	560	45.77	90.000	1016	1096	45.96	92.701	1505	1618	45.79	93.016	2497	2705
Sample #	Vmin	504	560	45.77	90.000	1015	1096	45.96	92.609	1505	1618	47.78	93.016	2496	2704
Sample #	Vmin	504	560	45.77	90.000	1015	1096	45.96	92.609	1505	1617	45.79	93.074	2498	2704
Sample #	Vmin	504	560	45.77	90.000	1015	1096	45.96	92.609	1505	1618	45.74	93.016	2498	2705
Sample #	Vmin														
Sample #	Vmin														
Sample #1	Vmin														
Sample #	Vnom	500	570	54.75	87.72	1007	1105	54.55	91.13	1489	1626	54.46	91.57	2494	2494
Sample #	Vnom	500	570	54.75	87.72	1007	1105	54.55	91.13	1489	1625	54.48	91.63	2497	2497
Sample #	Vnom	500	570	54.75	87.72	1007	1106	54.55	91.05	1489	1626	54.46	91.57	2500	2500
Sample #	Vnom	500	571	54.75	87.57	1007	1106	54.55	91.05	1489	1626	54.48	91.57	2526	2526
Sample #	Vnom	500	571	54.75	87.57	1009	1106	54.55	91.23	1489	1625	54.49	91.63	2537	2537
Sample #	Vnom	500	571	54.75	87.57	1008	1107	54.55	91.06	1490	1626	54.49	91.64	2539	2539
Sample #	Vnom	500	570	54.75	87.72	1010	1108	54.55	91.16	1490	1626	54.49	91.64	2539	2539
Sample #	Vnom														
Sample #	Vnom														
Sample #1	Vnom														
Sample #	Vmax	497	578	58.2	85.986	1002	1112	58.2	90.108	1506	1658	58.2	90.832	2529	2802
Sample #	Vmax	497	577	58.2	86.135	1002	1112	58.2	90.108	1506	1658	58.2	90.832	2530	2799
Sample #	Vmax	497	577	58.2	86.135	1002	1112	58.2	90.108	1507	1658	58.2	90.893	2532	2804
Sample #	Vmax	497	576	58.2	86.285	1001	1112	58.2	90.018	1508	1659	58.2	90.898	2532	2807
Sample #	Vmax	497	577	58.2	86.135	1001	1112	58.2	90.018	1508	1659	58.2	90.898	2531	2806
Sample #	Vmax	497	577	58.2	86.135	1002	1112	58.2	90.108	1508	1659	58.2	90.898	2528	2802
Sample #	Vmax	497	577	58.2	86.135	1001	1112	58.2	90.018	1508	1660	58.2	90.843	2528	2799
Sample #	Vmax														
Sample #	Vmax														
Sample #1	Vmax														

50%				75%				100%	
Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Power W	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Power W	Input Voltage (Vdc)	Efficiency (%)
45.91	92.345	3757	4196	45.88	89.538	5012	5732	45.9	87.439
45.91	92.311	3759	4195	45.87	89.607	5016	5730	45.9	87.539
45.91	92.311	3762	4190	45.88	89.785	5018	5717	45.9	87.773
45.9	92.311	3762	4198	45.86	89.614	5019	5729	45.9	87.607
45.9	92.308	3762	4193	45.86	89.721	5016	5728	45.9	87.570
45.9	92.382	3761	4186	45.86	89.847	5018	5732	45.9	87.544
45.9	92.348	3758	4191	45.85	89.668	5021	5723	45.9	87.734
54.48	89.65	3749	4275	54.54	87.7	5000	5879	54.47	85.05
54.48	89.76	3750	4271	54.54	87.8	5016	5882	54.54	85.28
54.48	89.83	3751	4257	54.53	88.11	5016	5898	54.46	85.05
54.48	90.67	3748	4276	54.53	87.65	5013	5896	54.46	85.02
54.49	91	3748	4274	54.53	87.69	5013	5874	54.46	85.34
54.49	90.97	3747	4254	54.54	88.08	5013	5880	54.46	85.26
54.49	90.97	3747	4270	54.54	87.75	5004	5875	54.46	85.17
58	90.257	3727	4280	58.1	87.079	5000	6011	58.14	83.181
58	90.389	3731	4276	58.1	87.254	5000	6008	58.14	83.222
58	90.300	3733	4284	58.1	87.138	5000	6020	58.14	83.056
58	90.203	3730	4281	58.1	87.129	5000	6006	58.14	83.250
58	90.200	3732	4279	58.1	87.217	5000	6005	58.14	83.264
58	90.221	3732	4278	58.1	87.237	4999	6005	58.14	83.247
58	90.318	3739	4286	58.1	87.238	4999	6005	58.14	83.247