Manufacturer: Connect Renewable Energy

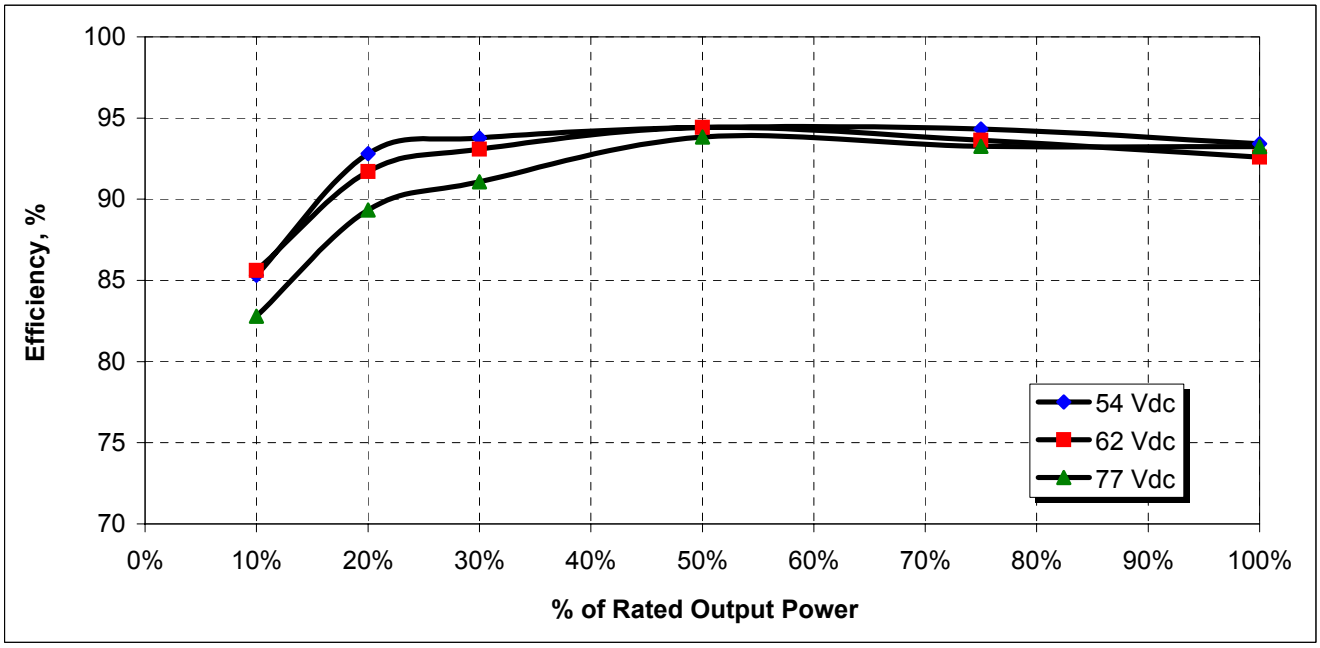
Model #: CE4000

Rated Maximum Continuous Output Power @25°C: 3.000 kW Night Tare Loss: 7.00 W
Rated Maximum Continuous Output Power @40°C: 3.000 kW Night Tare Loss: 7.00 W

Vmin: 54 Vdc Vnom: 62 Vdc Vmax: 77 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.30	0.60	0.90	1.50	2.25	3.00	Wtd
Vmin	54	85.3	92.8	93.8	94.4	94.3	93.4	93.8
Vnom	62	85.6	91.7	93.1	94.4	93.6	92.6	93.3
Vmax	77	82.8	89.3	91.1	93.8	93.3	93.2	92.5

CEC Efficiency = 93.0%



Inverter Efficiency Data

Minimum of 5 samples required

Specified		Sample #1			Sample #2			Sample #3			Sample #4			Sample #5		
Output Power	Input Voltage	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency
(% of rated)	(Vdc)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	247.033	55.52	85.423	247.03	55.52	85.387	246.8	55.52	85.310	246.77	55.52	85.267	246.67	55.52	85.270
20%	Vmin	596.4	55.56	92.82	596.13	55.58	92.820	596.33	55.557	92.820	596.2	55.583	92.833	596.3	55.56	92.760
30%	Vmin	909.133	55.583	93.917	910.9	55.26	94.083	909.1	55.503	93.923	908.5	55.647	93.850	906.67	55.453	93.673
50%	Vmin	1536.6	55.637	94.47	1541.9	55.39	94.413	1545.9	55.27	94.467	1540.7	55.43	94.423	1543.1	55.363	94.420
75%	Vmin	2229	55.37	94.253	2228	55.41	94.257	2228	55.39	94.260	2228.3	55.43	94.283	2227.3	55.53	94.297
100%	Vmin	2893	55.913	93.383	2907	55.617	93.390	2906.3	55.643	93.410	2909.3	55.573	93.393	2913.7	55.503	93.440
10%	Vnom	259.367	62.38	85.59	260.53	62.277	85.640	259.43	62.247	85.737	261.1	62.233	85.650	259.43	62.323	85.567
20%	Vnom	598.6	61.273	91.613	599	61.433	91.640	600	61.6	91.797	599.73	61.523	91.757	598.8	61.35	91.707
30%	Vnom	911.033	61.167	93.153	909.2	61.297	93.063	910.57	61.11	93.113	912.2	61.1	93.137	914.47	61.173	93.127
50%	Vnom	1571.93	61.503	94.433	1575.3	61.333	94.380	1568.2	60.933	94.243	1569	60.967	94.263	1575.5	61.507	94.457
75%	Vnom	2220	62.33	93.943	2209	62.017	93.747	2226	62.733	93.797	2218	62.69	93.503	2221.3	62.943	93.523
100%	Vnom	2852	62.377	92.457	2848.3	62.4	92.390	2857.7	62.31	92.513	2851	62.497	92.687	2845.3	62.58	92.677
10%	Vmax	264.533	75.45	82.783	265.83	75.3	82.800	264.83	75.287	82.767	265.13	75.383	82.820	266.83	75.24	82.793
20%	Vmax	596.3	77.03	88.9	596.7	77.003	88.940	596.87	77.07	89.063	599.43	77.003	89.347	601.43	76.93	89.557
30%	Vmax	921.567	76.617	91.14	916.2	76.827	90.990	919.67	76.81	91.060	917.8	76.7	91.060	920.13	76.78	91.053
50%	Vmax	1574	76.877	93.6	1577.7	77.177	93.720	1578.7	77.1	93.800	1580.3	77.183	93.957	1581.3	77.133	93.950
75%	Vmax	2280.33	76.207	93.2	2278.3	75.703	93.563	2286.7	76.443	93.303	2288.7	76.843	93.163	2288.7	76.95	93.127
100%	Vmax	2907	76.96	93.243	2901.3	77.007	93.230	2853.3	77.48	93.230	2825	77.767	93.240	2829.3	77.723	93.247

Specified		Sample #6			Sample #7			Sample #8			Sample #9			Sample #10		
Output Power	Input Voltage	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency
(% of rated)	(Vdc)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	246.633	55.52	85.273	246.57	55.52	85.237									
20%	Vmin	596.5	55.537	92.747	596.2	55.6	92.783									
30%	Vmin	904.667	55.49	93.487	904.5	55.6	93.400									
50%	Vmin	1544.97	55.27	94.373	1544.6	55.273	94.353									
75%	Vmin	2228	55.61	94.390	2233	55.57	94.560									
100%	Vmin	2907	55.65	93.440	2904.7	55.653	93.393									
10%	Vnom	261.2	62.24	85.633	260.33	62.313	85.423									
20%	Vnom	599.733	61.53	91.703	600.1	61.563	91.710									
30%	Vnom	908.4	61.337	93.020	908.33	61.36	93.010									
50%	Vnom	1575.93	61.563	94.613	1574.3	61.417	94.580									
75%	Vnom	2219.67	63.063	93.567	2195	62.037	93.340									
100%	Vnom	2849.33	62.52	92.670	2853.3	62.457	92.680									
10%	Vmax	265.467	75.297	82.803	265.27	75.163	82.740									
20%	Vmax	602.167	76.997	89.770	602.17	76.777	89.753									
30%	Vmax	920.267	76.74	91.060	923.33	76.667	91.137									
50%	Vmax	1576.67	76.863	93.840	1579.7	77.14	93.933									
75%	Vmax	2286.33	76.65	93.230	2285.7	76.55	93.257									
100%	Vmax	2817.33	77.833	93.227	2813.3	77.867	93.197									