Manufacturer: Refusol GmbH

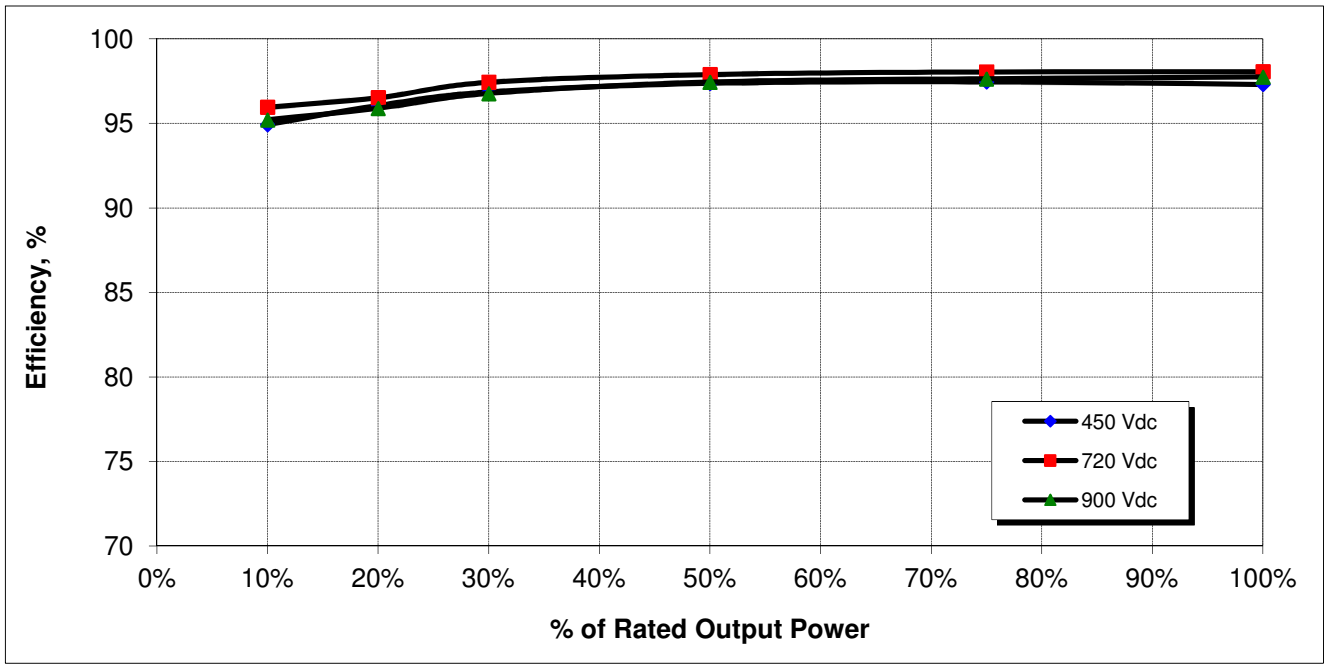
Model #: 804R012

Rated Maximum Continuous Output Power: 12.12 kW Night Tare Loss: 0.87 W

Vmin: 450 Vdc Vnom: 720 Vdc Vmax: 900 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		1.21	2.42	3.64	6.06	9.09	12.12	Wtd
Vmin	450	94.9	96.1	96.9	97.4	97.5	97.3	97.2
Vnom	720	96.0	96.5	97.4	97.9	98.1	98.1	97.8
Vmax	900	95.2	95.9	96.8	97.4	97.6	97.7	97.3

CEC Efficiency = 97.5%



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	1112	451.13	94.880	1112	451.13	94.960	1112	451.13	94.880	1112	451.13	94.960	1112	451.14	94.880
20%	Vmin	2224	451.08	96.070	2223	451.07	96.030	2223	451.07	96.070	2223	451.06	96.070	2224	451.07	96.070
30%	Vmin	3416	451.01	96.850	3416	451.01	96.850	3416	451.02	96.850	3417	451.01	96.850	3416	451.01	96.830
50%	Vmin	5842	450.9	97.370	5842	450.9	97.370	5842	450.9	97.350	5842	450.9	97.350	5843	450.92	97.370
75%	Vmin	8894	450.76	97.460	8897	450.75	97.440	8898	450.76	97.460	8897	450.76	97.460	8897	450.76	97.450
100%	Vmin	11949	450.59	97.320	11950	450.6	97.320	11949	450.59	97.230	11949	450.59	97.320	11950	450.59	97.320
10%	Vnom	1211	720.39	95.960	1211	720.39	95.880	1211	720.39	95.960	1212	720.4	96.040	1211	720.4	95.880
20%	Vnom	2413	720.36	96.790	2413	720.36	96.830	2413	720.36	96.830	2413	720.36	96.750	2414	720.36	96.830
30%	Vnom	3586	720.34	97.450	3586	720.33	97.450	3586	720.33	97.450	3586	720.34	97.450	3586	720.33	97.450
50%	Vnom	6011	720.27	97.900	6011	720.26	97.910	6010	720.25	97.900	6010	720.25	97.880	6011	720.25	97.900
75%	Vnom	9068	720.14	98.050	9067	720.14	98.060	9068	720.14	98.050	9068	720.14	98.050	9068	720.14	98.050
100%	Vnom	12130	720.04	98.060	12130	720.04	98.050	12131	720.04	98.070	12132	720.04	98.080	12131	720.05	98.070
10%	Vmax	1236	901.37	95.220	1236	901.37	95.220	1236	901.37	95.220	1236	901.36	95.220	1235	901.37	95.220
20%	Vmax	2461	901.34	95.830	2461	901.35	95.910	2461	901.34	95.870	2461	901.34	95.870	2461	901.34	95.910
30%	Vmax	3622	901.31	96.770	3621	901.31	96.770	3621	901.31	96.740	3621	901.31	96.790	3620	901.31	96.710
50%	Vmax	6037	901.24	97.430	6035	901.25	97.430	6036	901.26	97.430	6035	901.25	97.430	6035	901.25	97.450
75%	Vmax	9088	901.17	97.660	9087	901.17	97.680	9087	901.17	97.700	9087	901.17	97.710	9087	901.17	97.710
100%	Vmax	12145	901.1	97.740	12147	901.11	97.750	12145	901.1	97.730	12147	901.1	97.750	121146	901.1	97.740

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	1112	451.14	94.960	1112	451.13	94.880	1112	451.13	94.960	1112	451.13	94.960	1112	451.14	94.960
20%	Vmin	2224	451.07	96.070	2223	451.07	96.030	2224	451.06	96.030	2223	451.06	96.030	2224	451.07	96.070
30%	Vmin	3418	451.02	96.880	3417	451.01	96.880	3417	451.02	96.880	3417	451.01	96.850	3417	451.01	96.850
50%	Vmin	5843	450.91	97.370	5843	450.91	97.380	5843	450.92	97.370	5844	450.91	97.380	5843	450.91	97.370
75%	Vmin	8898	450.76	97.460	8897	450.75	97.440	8898	450.75	97.460	8898	450.74	97.460	8898	450.75	97.460
100%	Vmin	11949	450.6	97.290	11949	450.6	97.320	11949	450.6	97.310	11948	450.6	97.300	11949	450.6	97.290
10%	Vnom	1211	720.39	95.960	1211	720.39	95.880	1211	720.39	96.030	1212	720.39	96.040	1212	720.39	95.960
20%	Vnom	2414	720.36	96.830	2414	720.36	96.870	2413	720.36	96.830	2414	720.36	93.830	2413	720.36	96.830
30%	Vnom	3586	720.33	97.420	3586	720.33	97.420	3586	720.33	97.420	3586	720.34	97.450	3586	720.34	97.420
50%	Vnom	6010	720.25	97.900	6010	720.25	97.910	6011	720.24	97.910	6010	720.25	97.880	6010	720.25	97.900
75%	Vnom	9068	720.13	98.060	9068	720.14	98.050	9068	720.14	98.050	9068	720.14	98.050	9068	720.14	98.060
100%	Vnom	12132	720.04	98.070	12131	720.05	98.080	12131	720.04	98.070	12130	720.05	98.070	12131	720.05	98.080
10%	Vmax	1235	901.36	95.150	1235	901.36	95.220	1235	901.36	95.150	1235	901.36	95.220	1235	901.36	95.220
20%	Vmax	2461	901.34	95.910	2461	901.32	95.910	2461	901.33	95.910	2460	901.33	95.910	2461	901.33	95.870
30%	Vmax	3620	901.31	96.770	3621	901.31	96.740	3622	901.31	96.820	3621	901.31	96.820	3620	901.31	96.710
50%	Vmax	6035	901.26	97.450	6033	901.25	97.430	6035	901.24	97.450	6035	901.26	97.430	6035	901.25	97.450
75%	Vmax	9087	901.18	97.690	9087	901.18	97.670	9087	901.18	97.700	9087	901.18	97.700	9087	901.17	97.100
100%	Vmax	12147	901.11	97.740	12146	901.11	97.740	12146	901.11	97.740	12146	901.12	97.740	12147	901.11	97.750